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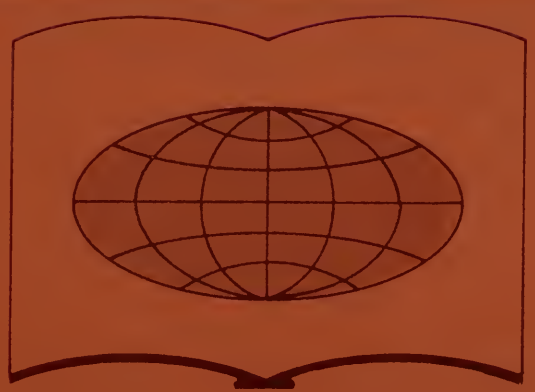

Volume 4 Number 6
MARCH 15, 1968

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These issues of the Pesticides Documentation Bulletin introduce a new computer generated current awareness service. Through the Pesticides Information Center's Update, Publication and Search (PICUPS) system, a categorized bibliographic citation file, accompanied by subject, author, organization and biographical indices will be issued bi-weekly.

All elements of the citations maintained in this mechanized file system are searchable by computer. In addition to the printed subject descriptors appearing in the Bulletin, other subject descriptors are incorporated in the tape file system as machine searchable but non-printable items. In the early issues some of these subject terms appear in the Bulletin as duplications. These duplications will be eliminated in later programs.

Since retrospective information was not previously published in searchable form, the next several issues of the Bulletin will contain selected coverage of pest control literature issued between 1960 and 1966. Additional retrospective material will be incorporated in future bulletins through the special bibliographies prepared by the Center. Current pest control literature will receive comprehensive coverage. Future expansion will include selected abstracts when such abstracts appear in the source document.

Recipients of this introductory issue are invited to send their comments and suggestions for its improvement to the U.S. Department of Agriculture, National Agricultural Library, Pesticides Information Center, 4112-Auditors Building, Washington, D. C. 20250. These comments together with computer produced statistical analyses will provide the bases for future changes.

Blanche L. Oliveri

Blanche L. Oliveri
Acting Director
National Agricultural Library

PESTICIDES DOCUMENTATION BULLETIN

A BI-WEEKLY PUBLICATION OF

U. S. DEPARTMENT OF AGRICULTURE

Volume 4 March 15, 1968 Number 6

OBJECTIVES AND SCOPE

The Pesticides Documentation Bulletin is compiled by the Pesticides Information Center, the first of its kind to be established within a national library. It is a bi-weekly index to the literature on pests and their control and the impact on the economy and man's total environment. The index includes literature on diseases, insects, nematodes, parasites, weeds, and other pests affecting plants, animals, man, our natural resources, and other values in man's environment. Literature on biological, chemical, cultural ecological, mechanical, and integrated methods of pest control will be included. Special emphasis is given to the literature on the toxicological, physiological and epidemiological aspects of pests and their control by chemical and nonchemical methods.

For broader coverage of literature on agriculture and related subjects, please consult the Bibliography of Agriculture, a monthly publication of the National Agricultural Library.

FORMAT

The Bulletin is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

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10 ENTOMOLOGY

6444-68
EVALUATION OF THE NEEDS OF OKLAHOMA EXTENSION PERSONNEL RELATIVE TO ENTOMOLOGY PROBLEMS.
N W Flora
Diss Abstr Sect B 27 (12,PT.1), 4192B
Jun 1967 Z5055.U49D53
Entomology, Extension workers.

SYSTEMATICS

6445-68
FURTHER TESTS ON THE USE OF A POLYHEDROSIS VIRUS IN THE CONTROL OF THE COTTON LEAFWORM PRODENIA LITURA, FABRICIUS.
S Abul-Nasr
J Invertebrate Pathol 1(2) 112-120, 12 REFS., 4 TABS.
Aug 1959 421 J826
Alabama, Biological control (insects), Polyhedroses, Prodenia.

6446-68
THE CULICOIDES OF NEW MEXICO (DIPTERA, CERATOPOGONIDAE).
W R Atchley
Kans Univ Sci Bull 46 (22), 937-1022 REF
03 Mar 1967 500 K132S
Ceratopogonidae, Culicoides, Diptera, Insect taxonomy, New Mexico.
Abstract included.

6447-68
THE EFFECT OF INFESTATION WITH ACARAPIS WOODI (RENNIE) ON THE MORTALITY OF HONEY BEES.
L Bailey D C Lee
J Invertebrate Pathol 1(1) 15-24, 11 REFS.
May 1959 421 J826
Apis mellifera, Mites, Parasitism.

6448-68
THE INCIDENCE OF VIRUS DISEASES IN HONEY BEES.
L Bailey
Ann Appl Biol 60 (1), 43-48 REF
Aug 1967 442.8 AN72
Apis mellifera, Bee diseases, Insect diseases, Sacbrood.

6449-68
A VIRUSLIKE TRANSOVARIAN FACTOR AFFECTING MORPHOLOGY IN SPIDER MITES.
H B Boudreaux
J Invertebrate Pathol 1(3) 270-280, 13 REFS.
Oct 1959 421 J826
Insect eggs, Insect morphology, Tetranychidae.

6450-68
THE HIGHER CLASSIFICATION OF THE FAMILY RHOPALIDAE (HEMIPTERA) TOGETHER WITH A REVISION OF THE GENUS ARHYSSUS STAL (RHOPALIDAEO HEMIPTERA).
N P Chopra
Diss Abstr Sect B 27 (12,PT.1), 4435B-4436B
Jun 1967 Z5055.U49D53
Arhyssus, Hemiptera, Insect taxonomy, Rhopalidae.

6451-68
A LIMNOLOGICAL INVESTIGATION OF THE AUFWUCHS COMMUNITY IN TWO MAINSTEM MISSOURI RIVER RESERVOIRS.
T O Claflin
Diss Abstr Sect B 27 (12,PT.1), 4598B-4599B
Jun 1967 Z5055.U49D53
Aquatic insects, Chironomidae, Limnology, Missouri River, Reservoirs, Surveys.

6452-68
THE SHALLOT APHID IN THE PACIFIC NORTHWEST.
C F Doucette
J Econ Entomol 53(1) 177-178, BIBL.
Feb 1960 421 J822
Lilium longiflorum, Myzus, Pacific Northwest, Plant disease transmission, Population statistics, Statistical distributions.

6453-68
THE FLIGHT RANGE OF THE EUROPEAN CHAFER.
W G Evans G G Gyrisco
J Econ Entomol 53(2) 222-224, BIBL.
Apr 1960 421 J822
Amphimallon, Insect flight.

6454-68
A TAXONOMIC STUDY OF THE GENUS CEDUSA IN THE NEW WORLD (HOMOPTERAO DERBIDAE).
J E Flynn
Diss Abstr Sect B 27 (12,PT.1), 4436B
Jun 1967 Z5055.U49D53
Cedusa, Derbidae, Insect taxonomy.

6455-68
A SAMPLING TECHNIQUE FOR ESTIMATING POPULATIONS OF SMALL ARTHROPODS IN SOIL AND VEGETATION.
C F Henderson
J Econ Entomol 53(1) 115-121, BIBL., PL.
Feb 1960 421 J822
Arthropoda, Equipment, Sampling (statistics), Soils, Vegetation.

6456-68
LONG-RANGE AERIAL TRANSPORT OF THE HARLEQUIN BUG AND THE GREENBUG INTO MINNESOTA.
A C Hodson E F Cook
J Econ Entomol 53(4) 604-608, BIBL.
Aug 1960 421 J822
Insect migration, Minnesota, Murgantia, Population statistics, Toxoptera, Weather.

6457-68
THE BLACK FLIES (DIPTERAO SIMULIIDAE) OF WESTERN MASSACHUSETTS.
F R Holbrook
Diss Abstr Sect B 27 (12,PT.1), 4436B
Jun 1967 Z5055.U49D53
Diptera, Habitats, Insect taxonomy, Simuliidae, Surveys.

6458-68
ACARINA ASSOCIATED WITH MICHIGAN BOMBINAE. I-II. .
R W Husband
Diss Abstr Sect B 27 (12,PT.1), 4605B
Jun 1967 Z5055.U49D53
Acarina, Bombinae, Zoogeography.

6459-68
SOME RELATIONSHIPS BETWEEN PEREZIA PYRAUSTAE PAILLOT (SPOROZOA, NOSEMATIDAE) AND PYRAUSTA NUBILALIS (HUBNER) (LEPIDOPTERA, PYRALIDAE).
J P Kramer
J Invertebrate Pathol 1(1) 25-33, 7 REFS., 2 TABS.
May 1959 421 J826
Moths, Parasitism, Protozoa.

6460-68
ESTIMATING IMMATURE POPULATIONS OF RICE WEEVILS IN WHEAT BY USING SUBSAMPLES.
G F Krause J R Pedersen
J Econ Entomol 53(2) 215-217, BIBL., TABS.
Apr 1960 421 J822
Population statistics, Sampling (statistics), Sitophilus, Wheat.

6461-68
DISTANCE FROM THE APIARY AS A FACTOR IN ALFALFA POLLINATION.
M D Levin
J Econ Entomol 53(1) 56-60, BIBL., TABS.
Feb 1960 421 J822
Alfalfa, Apiaries, Apis mellifera, Pollination.

6462-68
THE HORIZONTAL AND VERTICAL DISTRIBUTION OF FLYING INSECTS NEAR ARTIFICIAL WINDBREAKS.
T Lewis
Ann Appl Biol 60 (1), 23-31
Aug 1967 442.8 AN72
Ecology, Insect flight, Windbreaks.

10 6463-68

6463-68
THE OCCURRENCE OF SPECIES OF THE GENUS BREVIBACTERIUM IN INSECTS.
O Lysenko
J Invertebrate Pathol 1(1) 34-42, 9 REFS., 1 TAB.
May 1959 421 J826
Bacteria, Brevibacterium, Insect diseases.

6464-68
NORTH AMERICAN SPECIES OF ASCHERSONIA PARASITIC ON ALEYRODIDAE.
E B Mains
J Invertebrate Pathol 1(1) 43-47, 5 REFS.
May 1959 421 J826
Aleyrodidae, Coccidae, Insect diseases, Parasitism.

6465-68
SCIENTIFIC NOTES.
DISCOVERY IN MICHIGAN OF ORGILUS OBSCURATOR (NEES), A FOREIGN PARASITE OF THE EUROPEAN PINE SHOOT MOTH.
W E Miller
J Econ Entomol 53(2)318, BIBL.
Apr 1960 421 J822
Michigan, Orgilus obscurator.

6466-68
DROSOPHILID SURVEY OF INDIA. III. THE DROSOPHILIDA OF KASHMIR VALLEY.
R Parshad K K Duggal
Panjab Univ Res Bull (N.S.) 17 (3/4), 277-290 REF
Dec 1966 513 EA72
Dorsilopha, Drosophila, Drosophilidae, Insect taxonomy, Pholadoris, Scaptomyza, Sophophora.
Abstract included.

6467-68
FLEAS (SIPHONAPTERA) OF ALABAMA AND THEIR HOST RELATIONSHIP.
L G Sanford
Diss Abstr Sect B 27 (12,PT.1), 4438B
Jun 1967 Z5055.U49D53
Parasitic insects, Siphonaptera, Zoogeography.

6468-68
THE AQUATIC AND SEMI-AQUATIC HEMIPTERA OF OKLAHOMA. THE LYGAEIDAE OF OKLAHOMA (HEMIPTERA).
K F Schaefer
Diss Abstr Sect B 27 (12,PT.1), 4609B
Jun 1967 Z5055.U49D53
Aquatic insects, Insect taxonomy.

6469-68
A PRELIMINARY STUDY OF THE SYRPHIDAE OF OKLAHOMA (DIPTERA0 SYRPHIDAE.
D A Shorter
Diss Abstr Sect B 27 (12,PT.1), 4610B
Jun 1967 Z5055.U49D53
Diptera, Insect taxonomy, Syrphidae.

6470-68
STUDIES OF EUGREGARINA IN INSECTS.
J Theodorides
J Invertebrate Pathol 1(2) 107-111, 20 REFS.
Aug 1959 421 J826
Coleoptera, Eugregarina, Parasitism, Protozoa.

6471-68
TAXONOMY AND BIOLOGY OF THE SUBFAMILY BEROSINAE OF NORTH AND CENTRAL AMERICA AND THE WEST INDIES (COLEOPTERA0 HYDROPHILIDAE.
E R Van Tassell
Diss Abstr Sect B 27 (12,PT.1), 4612B
Jun 1967 Z5055.U49D53
Aquatic insects, Berosinae, Hydrophilidae, Insect biology, Insect taxonomy.

6472-68
LOXOSCELES RECLUSA IN SOUTHERN CALIFORNIA.
W G Waldron F E Russell
Toxicon 5 (1), 57
Jul 1967 391.8 T66
Arachnoidism, California, Loxosceles reclusa, Spiders.

6473-68
NOSEMA LAPHYMAE N. SP. AND THE INTERNAL STRUCTURE OF THE MICROSPORIDIAN SPORE.
J Weiser
J Invertebrate Pathol 1(1) 52-59, 13 REFS.
May 1959 421 J826
Bacteria, Insect diseases, Laphygma.

6474-68
ADELINA SERICETHIS N. SP., A NEW COCCIDIAN PARASITE OF SCARABAEID LARVAE.
J Weiser R L Beard
J Invertebrate Pathol 1(2) 99-106, 4 REFS.
Aug 1959 421 J826
Coleoptera, Insect diseases, Parasitism, Protozoa, Scarabaeidae.

Physiology and Biochemistry

6475-68
FURTHER RECORDS OF PARASITES OF NIPAECOCCUS VASTATOR MASKELL (HOMOPTERA, COCCIDAE) FROM INDIA.
Q A Abbasi Y Singh
Indian J Entomol 28 (3), 408-410
Sep 1966 420 IN23
Nipaecoccus vastator, Parasitism.

6476-68
EVALUATION OF COMPOUNDS OF CADMIUM AND RELATED METALS AS REPRODUCTION INHIBITORS IN INSECTS.
M El T Abdel-razig
Diss Abstr Sect B 27 (12,PT.1), 4594B
Jun 1967 Z5055.U49D53
Blattella germanica, Cadmium, Chemosterilants, Drosophila melanogaster, Fertility, Metals, Musca domestica, Periplaneta americana, Reproduction.

6477-68
SYMBIONTIC INTERRELATIONSHIPS BETWEEN MICROBES AND AMBROSIA BEETLES. II. THE ORGANS OF MICROBIAL TRANSPORT AND PERPETUATION IN TRYPODENDRON BETULE AND T. RETUSUM (COLEOPTERA, SCOLYTIDAE).
L P Abrahamson H M Chu D M Norris
Entomol Soc Amer Ann 60 (5), 1107-1110
Sep 1967 420 EN82
Microorganisms, Mycangia, Symbiosis, Trypodendron betulae, Trypodendron retusum.
Abstract included.

6478-68
MODE OF MULTIPLICATION OF SILKWORM NUCLEAR POLYHEDROSIS VIRUS II. MULTIPLICATION OF THE VIRUS IN THE EARLY PERIOD OF THE LD50-- TIME CURVE.
K Aizawa
J Invertebrate Pathol 1(1) 67-74, 9 REFS.
May 1959 421 J826
Bombyx mori, Polyhedroses.

6479-68
THE POTENTIAL ROLE OF A FEEDING STIMULANT USED IN COMBINATION WITH THE NUCLEAR POLYHEDROSIS VIRUS OF HELIOTHIS.
G E Allen T L Pate
J Invertebrate Pathol 8(1) 129-131, 1 TAB.
Mar 1966 421 J826
Feed additives, Heliothis zea, Polyhedroses.

6480-68
SEPARATION OF BACTERIAL SPORES AND PARASPORAL BODIES WITH A FLUOROCARBON.
T A Angus
J Invertebrate Pathol 1(1) 97-98
May 1959 421 J826
Bacteria, Carbon, Inclusion bodies.

6481-68
NEW NOTES ON THE STRUCTURE OF PTEROSIPHONIA (RHODOMELACEAE, CERAMIALES), AND THEIR SYSTEMATIC RELATIONSHIP WITH POLYSOPHONIA.)FR (
F Ardre
Acad Sci Compt Rend Ser D Sci Nat 264 (18), 2192-2195 REF
03 May 1967 505 P21
Polysophonia, Pterosiphonia.

6482-68
PRELIMINARY BIOLOGICAL OBSERVATIONS ON LINOGNATHUS AFRICANUS KELLOG AND PAINE WITH A DESCRIPTION OF THE FIRST INSTAR NYMPH (HAEMATOPINIDAE, ANOPLURA).
G L Arora L K Vats
Panjab Univ Res Bull (N.S.) 17 (3/4), 291-296 REF
Dec 1966 513 EA72

Anoplura, Goats, Insect pests, Linognathus africanus.
Abstract included.

6483-68
THE NATURAL MECHANISM OF SUPPRESSION OF NOSEMA APIS ZANDER IN ENZOOTICALLY INFECTED COLONIES OF THE HONEY BEE, APIS MELLIFERA LINNAEUS.
L Bailey
J Invertebrate Pathol 1(4) 347-350, 6 REFS., 1 TAB.
Dec 1959 421 J826
Apis mellifera, Bee diseases, Protozoa.

6484-68
AN IMPROVED METHOD FOR THE ISOLATION OF STREPTOCOCCUS PLUTON, AND OBSERVATIONS ON ITS DISTRIBUTION AND ECOLOGY.
L Bailey
J Invertebrate Pathol 1(1) 80-85, 13 REFS.
May 1959 421 J826
Apis mellifera, Bacteria, Insect diseases, Insect ecology.

6485-68
SYNTHESES OF THE ALIPHATIC DEUTERIUM ANALOGS OF DDT AND TDE AND THEIR TOXICITY AND DEGRADATION WHEN APPLIED TO ADULT HOUSE FLIES.
R J Barker
J Econ Entomol 53(1) 35-41, BIBL. 40-41, TABS.
Feb 1960 421 J822
Deuterium, DDT , Electronic structure, Musca domestica, TDE , Toxicology.

6486-68
NESTS AND SOCIAL BEHAVIOR OF BALICTINE BEES OF INDIA (HYMENOPTERA, HALICTIDAE).
S W T Batra
Indian J Entomol 28 (3), 375-393 REF
Sep 1966 420 IN23
Bees, Balictinae, Insect behavior.

6487-68
SPICARIA RILEYI (FARLOW) CHARLES AND ASPERGILLUS FLAVUS LINK, ENTOMOGENOUS FUNGI OF THE CABBAGE LOOPER, TRICHOPLUSIA NI (HUBNER), IN INDIANA AND WISCONSIN.
C N Behnke J D Paschke
J Invertebrate Pathol 8(1) 103-108, 11 REFS., 1 TAB.
Mar 1966 421 J826
Entomogenous fungi, Trichoplusia.

6488-68
PROTECTION OF A SUSCEPTIBLE INSECT HOST AGAINST A NUCLEAR POLYHEDROSIS VIRUS BY ETHER EXTRACTS FROM INSECT LARVAE.
Y Ben-Shaked I Barpaz
J Invertebrate Pathol 8(2) 283-285, 1 TAB.
Jun 1966 421 J826
Caterpillars, Polyhedroses.

6489-68
ON THE STRUCTURE OF CYTOPLASMIC POLYHEDRA OF SOME LEPIDOPTERA.
G H Bergold J Suter
J Invertebrate Pathol 1(1) 1-14, 20 REFS.
May 1959 421 J826
Bombyx mori, Moths, Polyhedroses.

6490-68
PURIFICATION OF INSECT VIRUS INCLUSION BODIES WITH A FLUOROCARBON.
G B Bergold
J Invertebrate Pathol 1(1) 96-97
May 1959 421 J826
Carbon, Inclusion bodies, Polyhedroses.

6491-68
CUMULATIVE EFFECT OF SUBLETHAL DOSES OF MYRISTYL CHLOROACETATE ON A HIGHLY DDT -RESISTANT STRAIN OF MUSCA DOMESTICA L.
S Bettini M Boccacci G Natalizi
J Econ Entomol 53(1) 99-101, BIBL.
Feb 1960 421 J822
DDT , Musca domestica, Myristyl chloroacetate.

6492-68
POLYHEDROSIS AND GRANULOSIS VIRUSES CAUSING SINGLE AND DOUBLE INFECTIONS IN THE SPRUCE BUDWORM, CHORISTONEURA FUMIFERANA CLEMENS.
F T Bird
J Invertebrate Pathol 1(4) 406-430, 23 REFS., 2 TABS.
Dec 1959 421 J826
Choristoneura, Choristoneura fumiferana, Granuloses, Polyhedroses.

6493-68
A STUDY OF THE LIFE HISTORY OF THE PIGEON FEATHER MITE, FALCULIFER ROSTRATUS (BUCHHOLZ), 1869, IN VIVO AND IN VITRO.
D F Blake
Diss Abstr Sect B 27 (12,PT.1), 4243B
Jun 1967 Z5055.U49D53
Falculifer rostratus, Feathers, Metamorphosis, Pigeons, Sarcoptoformes.

6494-68
LABORATORY METHOD FOR SCREENING COMPOUNDS AS ATTRACTANTS TO GYPSY MOTH MALES.
B C Block
J Econ Entomol 53(1) 172-173, BIBL.
Feb 1960 421 J822
Insect behavior, Porthetria, Spanish gypsy moths.

6495-68
HISTOCHEMICAL STUDIES OF LARVAL MACRACANTHORHYNCHUS INGENS AND CERTAIN SPIROBOLID MILLIPEDS.
R C Bowen
Diss Abstr Sect B 27 (12,PT.1), 4596B-4597B
Jun 1967 Z5055.U49D53
Diplopoda, Histochemistry, Macracanthorhynchus ingens.

6496-68
A SEASONAL STUDY OF DIAPAUSE, REPRODUCTIVE ACTIVITY AND SEASONAL TOLERANCE TO INSECTICIDES IN THE BOLL WEEVIL.
J R Brazzel B G Hightower
J Econ Entomol 53(1) 41-46, BIBL.
Feb 1960 421 J822
Anthonomus grandis, Azinphosmethyl, Cotton, Diapause, Toxaphene.

6497-68
ON THE IN-VITRO CULTURE OF INTRACELLULAR SYMBIOTES OF COCKROACHES.
M A Brooks K Richards
J Invertebrate Pathol 8(2) 150-157, 23 REFS.
Jun 1966 421 J826
Bacteria, Blattidae, Symbiosis.

6498-68
MECHANISM OF LOCUST JUMPING.
R H J Brown
Nature 214 (5091), 939
27 May 1967 472 N21
Acrididae, Insect morphology, Locomotion.

6499-68
BACTERIA OF GRASSHOPPERS OF WESTERN CANADA III. FREQUENCY OF OCCURRENCE, PATHOGENICITY.
G E Bucher
J Invertebrate Pathol 1(4) 391-405, 7 REFS.
Dec 1959 421 J826
Bacteria, Canada, Grasshoppers, Insect diseases.

6500-68
SCHIZOGREGARINE INFECTION IN GRASSHOPPERS.
G E Bucher
J Invertebrate Pathol 8(1) 127-129
Mar 1966 421 J826
Grasshoppers, Insect diseases.

6501-68
BACTERIA OF GRASSHOPPERS OF WESTERN CANADA I. THE ENTEROBACTERIACEAE.
G E Bucher J M Stephens
J Invertebrate Pathol 1(4) 356-373, 23 REFS., 4 TABS.
Dec 1959 421 J826
Bacteria, Canada, Grasshoppers.

6502-68
FUNGUS DISEASE OF ADULT PARASITE INSECTS CAUSED BY TORULA NIGRA (HARPMANN).
G E Bucher G K Bracken
J Invertebrate Pathol 8(2) 193-204, 18 REFS.
Jun 1966 421 J826
Insect diseases, Parasitic insects.

6503-68
BACTERIA OF GRASSHOPPERS OF WESTERN CANADA II. THE PSEUDOMONADACEAE, ACHROMOBACTERACEAE, MICROCOCCACEAE, BREVIBACTERIACEAE, LACTOBACILLACEAE, AND LESS IMPORTANT FAMILIES.
G E Bucher J M Stephens
J Invertebrate Pathol 1(4) 374-390, 10 REFS., 5 TABS.
Dec 1959 421 J826
Achromobacteraceae, Bacteria, Brevibacteriaceae, Canada,

Grasshoppers, Lactobacillaceae, Micrococcaceae, Pseudomonadaceae.

6504-68
THE BACTERIUM COCCOBACILLUS ACRIDIORUM D HERELLE ITS TAXONOMIC POSITION AND STATUS AS A PATHOGEN OF LOCUSTS AND GRASSHOPPERS.
G E Bucher
J Invertebrate Pathol 1(4) 331-346, 38 REFS., 2 TABS.
Dec 1959 421 J826
Acrididae, Bacteria, Grasshoppers Insect diseases.

6505-68
BOLL WEEVIL SUSCEPTIBILITY TO TOXAPHENE, ENDRIN, AND GUTHION IN FIVE ALABAMA LOCALITIES.
G F Burkhalter F S Arant
J Econ Entomol 53(2) 311-313, BIBL.
Apr 1960 421 J822
Alabama, Anthonomus grandis, Azinphosmethyl, Endrin, Toxaphene.

6506-68
INACTIVATION BY IRRADIATION OF SPORES OF BACILLUS THURINGIENSIS VAR. THURINGIENSIS.
G E Cantwell B A Franklin
J Invertebrate Pathol 8(2) 256-258, 3 TABS.
Jun 1966 421 J826
Bacteria, Insect control, Irradiation.

6507-68
THE HISTOPATHOLOGICAL EFFECTS OF CERTAIN CARCINOGENIC 2-FLUORENAMINE DERIVATIVES ON LARVAE OF THE HOUSE FLY.
G E Cantwell T J Shortino W E Robbins
J Invertebrate Pathol 8(2) 167-174, 16 REFS., 1 TAB.
Jun 1966 421 J826
Carcinogens, Musca domestica.

6508-68
MORTALITY OF THE HONEY BEE, APIS MELLIFERA, IN COLONIES TREATED WITH CERTAIN BIOLOGICAL INSECTICIDES.
G E Cantwell D A Knox T Lehnert A S Michael
J Invertebrate Pathol 8(2) 228-233, 16 REFS., 2 TABS.
Jun 1966 421 J826
Apis mellifera, Granuloses, Insecticides, Polyhedroses.

6509-68
STABILITY, TOXICITY, AND REACTION MECHANISM WITH ESTERASES OF CERTAIN CARBAMATE INSECTICIDES.
J E Casida K B Augustinsson G Jonsson
J Econ Entomol 53(2) 205-212, BIBL.
Apr 1960 421 J822
Mice, Musca domestica, Toxicology.

6510-68
THE OCCURENCE OF POLYPHENOLOXIDASE IN THE HEMOCYTES OF ACTIVELY IMMUNIZED LARVAE OF THE GREATER WAX MOTH, GALLERIA MELLONELLA.
J S Chadwick
J Invertebrate Pathol 8(1) 126-127
Mar 1966 421 J826
Galleria, Immunization, Phenolases.

6511-68
MICROBIAL ISOLATIONS FROM THE MID-GUT OF CULEX TARSALIS COQUILLETT.
J Chao G A Wistreich
J Invertebrate Pathol 1(4) 311-318, 23 REFS., 3 TABS.
Dec 1959 421 J826
Culex, Culicidae, Insect biology, Microorganisms.

6512-68
STUDIES ON THE NUTRITIONAL REQUIREMENTS OF THE FRUIT FLY DACUS CUCURBITAE COQUILLETT (DIPTERA, TRYPETIDAE). IV. RESPONSES OF D CUCURBITAE LARVAE TO VITAMIN DEFICIENT DIETS.
S S Chawla
Panjab Univ Res Bull (N.S.) 17 (3/4), 327-334 REF
Dec 1966 513 EA72
Dacus cucurbitae, Insect nutrition, Vitamins.
Abstract included.

6513-68
STUDIES ON THE NUTRITIONAL REQUIREMENTS OF THE FRUIT FLY DACUS CUCURBITAE COQUILLETT (DIPTERA, TRYPETIDAE). III. DEVELOPMENT OF A SYNTHETIC MEDIUM FOR D CUCURBITAE LARVAE.
S S Chawla
Panjab Univ Res Bull (N.S.) 17 (3/4), 243-250 REF
Dec 1966 513 EA72
Dacus cucurbitae, Diptera, Insect nutrition, Insect physiology, Trypetidae.
Abstract included.

6514-68
A METHOD FOR INOCULATION OF MOSQUITO LARVAE.
T B Clark
J Invertebrate Pathol 8(3) 425-427,
Sep 1966 421 J826
Culicidae, Immunization, Insect diseases.

6515-68
PYTHIUM SP. (PHYCOMYCETES PYTHIALES) PATHOGENIC TO MOSQUITO LARVAE.
T B Clark W R Kellen J E Lindegren R D Sanders
J Invertebrate Pathol 8(3) 351-354, 8 REFS.
Sep 1966 421 J826
Biological control (insects), Culicidae, Entomogenous fungi.

6516-68
EVIDENCE OF THE OVERSUMMERING OF THE GREENBUG IN THE TEXAS PANHANDLE.
N E Daniels
J Econ Entomol 53(3) 454-455, BIBL., TABS.
Jun 1960 421 J822
Grasses, Hibernation, Texas, Toxoptera.

6517-68
PERSISTENCE OF A GRANULOSIS VIRUS OF PIERIS BRASSICAE ON CABBAGE LEAVES.
W A L David B O C Gardiner
J Invertebrate Pathol 8(2) 180-183, 6 REFS., 3 TABS.
Jun 1966 421 J826
Cabbage, Granuloses.

6518-68
THE DESIGNATION OF CHEMICALS IN TERMS OF THE RESPONSES THEY ELICIT FROM INSECTS.
V G Dethier L B Browne C N Smith
J Econ Entomol 53(1) 134-136, BIBL.
Feb 1960 421 J822
Chemicals, Insects, Nomenclature.

6519-68
THE INFLUENCE OF ENVIRONMENTAL AND NUTRITIONAL FACTORS ON GROWTH AND CASTE DETERMINATION OF FEMALE HONEY BEES.
A Dietz
Diss Abstr Sect B 27 (12,PT.1), 4599B-4600B
Jun 1967 Z5055.U49D53
Apis mellifera, Environment, Insect morphology, Insect nutrition, Insect physiology, Royal jelly.

6520-68
NEUROSECRETORY SYSTEM OF HETEROPTERA (HEMIPTERA) AND A ROLE OF THE AORTA AS A NEUROHAEMAL ORGAN.
G S Dogra
Nature 215 (5097), 199-201 REF
08 Jul 1967 472 N21
Aorta, Heteroptera, Insect physiology, Nervous system.

6521-68
MOUTHPARTS OF THE BITING AND BLOOD-SUCKING TYPE IN TANYDERIDAE AND CHIRONOMIDAE (DIPTERA).
J A Downes D H Colless
Nature 214 (5095), 1355-1356, REF
24 Jun 1967 472 N21
Chiromomidae, Insect physiology, Mouth parts, Tanyderidae.

6522-68
PATHOLOGY OF A NUCLEAR POLYHEDROSIS VIRUS OF THE CABBAGE LOOPER, TRICHOPLUSIA NI (HUBNER).
E L Drake F L McEwen
J Invertebrate Pathol 1(3) 281-293, 12 REFS., 2 TABS.
Oct 1959 421 J826
Polyhedroses, Trichoplusia.

6523-68
MORPHOLOGICAL AND PHYSIOLOGICAL DISTINCTION BETWEEN TWO POPULATIONS OF THE PEACH-POTATO APHID.
V F Eastop G E Russell
Nature 215 (5100), 514-515
29 Jul 1967 472 N21
Aphididae, Insect morphology, Insect physiology, Insecticide resistant insects, Myzus persicae.

6524-68
HEMEROCAMPA PSEUDOTSUGATA MCDUNNOUGH, A NEW HOST FOR BEAUVERIA BASSIANA (BALSAMO) VUILLEMIN.
W E Eslyn
J Invertebrate Pathol 1(4) 434-435
Dec 1959 421 J826

Biological control (insects), Entomogenous fungi, Lymantriidae.

6525-68
SILICON CONTENT OF INTACT NUCLEAR POLYHYDRA FROM THE CORN EARWORM, HELIOTHIS ZEA.
Z E Estes R M Faust
J Invertebrate Pathol 8(2) 145-149, 6 REFS.
Jun 1966 421 J826
Heliothis zea, Silicon.

6526-68
CONTENT OF NUCLEIC ACID IN INTACT NUCLEAR POLYHEDRAL BODIES ISOLATED FROM VIRUS-INFECTED BEET ARMYWORMS SPODOPTERA EXIGUA (LEPIDOPTERA NOCTUIDAE).
R M Faust
J Invertebrate Pathol 8(2) 273-274
Jun 1966 421 J826
Noctuidae, Nucleic acids, Polyhedroses.

6527-68
SILICON CONTENT OF THE PARASPORA CRYSTAL OF SEVERAL CRYTALLIFEROUS BACTERIA.
R M Faust Z E Estes
J Invertebrate Pathol 8(2) 141-144, 9 REFS., 2 TABS.
Jun 1966 421 J826
Bacteria, Insect diseases, Silicon.

6528-68
LABORATORY STUDIES ON THE REARING OF APHIDIUS SMITHI (HYMENOPTERA, BRACONIDAE) AND ITS PARASITISM OF ACYTHOSIPHON PISUM (HOMOPTERA, APHIDIDAE).
P M Fox B C Pass R Thurston
Entomol Soc Amer Ann 60 (5), 1083-1087
Sep 1967 420 EN82
Acyrthosiphon pisum, Aphidius smithi, Insect rearing, Parasitism.
Abstract included.

6529-68
THE EFFECT OF FORAGING BEHAVIOR OF MOVING HONEY BEE COLONIES TO CROPS BEFORE OR AFTER FLOWERING HAS BEGUN.
J B Free N W Free S C Jay
J Econ Entomol 53(4) 564-566, BIBL.
Aug 1960 421 J822
Apis mellifera, Flowering, Forage plants, Insect behavior.

6530-68
FUNGUS INFECTION OF INSECTS VIA THE ALIMENTARY TRACT.
B P Gabriel
J Invertebrate Pathol 1(4) 319-330, 11 REFS., 2 TABS.
Dec 1959 421 J826
Bombyx mori, Entomogenous fungi, Moths.

6531-68
BEHAVIOURAL RESPONSES TO CONTACT WITH DDT IN ANOPHELES ATROPARVUS.
J L Gerold J J Laarman
Nature 215 (5100), 518-520
29 Jul 1967 472 N21
Anopheles atroparvus, DDT , Insect behavior.

6532-68
PRELIMINARY REPORT ON THE LARVAL DEVELOPMENT OF THE BORN FLY, HAEMATOBIA IRRITANS, IN FECES FROM CATTLE GIVEN FRACTIONS OF A COMMERCIAL PREPARATION OF BACILLUS THURINGIENSIS.
R E Gingrich J L Eschle
J Invertebrate Pathol 8(2) 285-287
Jun 1966 421 J826
Bacteria, Haematobia.

6533-68
AMOEBA DISEASE OF THE HONEY BEE, APIS MELLIFERA LINNAEUS, AND AN ATTEMPT AT ITS CHEMICAL CONTROL.
G Giordani
J Invertebrate Pathol 1(3) 245-269, 31 REFS., 8 TABS.
Oct 1959 421 J826
Apis mellifera, Bee diseases, Furazolidone, Protozoa.

6534-68
EFFECT OF TEMPERATURE ON THE SUSCEPTIBILITY OF GRUBS OF TROGODERMA GRANARIUM EVERTS TO PYRETHRINS.
G K Girish B K Rai
Indian J Entomol 28 (3), 401-404 REF
Sep 1966 420 IN23
Pyrethrum, Temperature, Trogoderma granarium.

6535-68
LABORATORY SELECTION OF NORMAL AND CHLORDANE-RESISTANT GERMAN COCKROACHES FOR RESISTANCE TO MALATHION AND DIAZINON.
J McD Grayson
J Econ Entomol 53(2) 200-203, BIBL. 202-203
Apr 1960 421 J822
Blattella germanica, Chlordane, Diazinon, Insecticide resistant insects, Malathion.

6536-68
PATHOGENICITY OF SPICARIA RILEYI TO PSEUDOPLUSIA INCLUDENS.
R T Gudauskas T D Canerday
J Invertebrate Pathol 8(2) 277
Jun 1966 421 J826
Entomogenous fungi, Insect diseases, Pseudoplusia.

6537-68
A PRELIMINARY ACCOUNT OF THE MEIOTIC MECHANISM IN NINETEEN SPECIES OF THE INDIAN MANTIDS.
M L + + Gupta
Panjab Univ Res Bull (N.S.) 17 (3/4), 421-422
Dec 1966 513 EA72
Mantids, Meiosis.

6538-68
THE FUNGUS ENTOMOPHTHORA ERUPTA (DUSTAN) ATTACKING THE BLACK GRASS BUG, IRBISIA SOLANI (HEIDEMANN) (HEMIPTERA, MIRIDAE), IN CALIFORNIA.
I M Ball
J Invertebrate Pathol 1(1) 48-51, 2 REFS.
May 1959 421 J826
Entomogenous fungi, Entomophthora, Irbisia, Miridae.

6539-68
THE SUSCEPTIBILITY OF THE HOUSE FLY, MUSCA DOMESTICA LINNAEUS, TO BACILLUS THURINGIENSIS VAR. THURINGIENSIS BERLINER.
I M Ball K Y Arakawa
J Invertebrate Pathol 1(4) 351-355, 1 REF., 2 TABS.
Dec 1959 421 J826
Bacteria, Inclusion bodies, Insect diseases, Musca domestica.

6540-68
A MODIFIED AZAN STAINING TECHNIQUE FOR INCLUSION BODY VIRUSES.
J J Hamm
J Invertebrate Pathol 8(1) 125-126
Mar 1966 421 J826
Culture media, Polyhedroses.

6541-68
SOME EFFECTS OF X-RADIATION ON LARVAE OF GALLERIA MELLONELLA.
J C Barshbarger B S Moore
J Invertebrate Pathol 8(2) 277-279
Jun 1966 421 J826
Galleria, X-rays.

6542-68
CONTROL OF THE ORIENTAL RAT FLEA WITH SYSTEMIC INSECTICIDES FED TO RATS.
T L Barvey
J Econ Entomol 53(1) 167-168, BIBL.
Feb 1960 421 J822
Dimethoate, Dowco 109, Phosphoramidothioic acid, Rats, Ronnel.

6543-68
THE SITE OF ACTION OF CRYSTALLIFEROUS BACTERIA IN LEPIDOPTERA LARVAE.
A M Heimpel T A Angus
J Invertebrate Pathol 1(2) 152-170, 14 REFS., 1 TAB.
Aug 1959 421 J826
Bacteria, Insect diseases, Moths.

6544-68
A NEW NUCLEAR POLYHEDROSIS OF THE CABBAGE LOOPER, TRICHOPLUSIA NI.
A M Heimpel J R Adams
J Invertebrate Pathol 8(3) 340-346, 9 REFS.
Sep 1966 421 J826
Polyhedroses, Trichoplusia.

6545-68
EXPOSURE OF WHITE MICE AND GUINEA PIGS TO THE NUCLEAR-POLYHEDROSIS VIRUS OF THE CABBAGE LOOPER, TRICHOPLUSIA NI.
A M Heimpel

10 6546-68

J Invertebrate Pathol 8(1) 98-102, 2 REFS.
Mar 1966 421 J826
Guinea pigs, Mice, Polyhedroses.

6546-68
A CRYTALLIFEROUS BACTERIUM ASSOCIATED WITH A BLISTER DISEASE IN THE EARTHWORM EISENIA FOETIDA (SAVIGNY).
A M Heimpel
J Invertebrate Pathol 8(3) 295-298, 5 REFS.
Sep 1966 421 J826
Earthworms, Insect diseases.

6547-68
THE ISOLATION OF A POLYHEDROSIS VIRUS FROM A GRASSHOPPER.
J E Henry J W Jutila
J Invertebrate Pathol 8(3) 417-418
Sep 1966 421 J826
Grasshoppers, Polyhedroses.

6548-68
FURTHER STUDIES ON THE ISOLATION AND CRYSTALLIZATION OF INSECT CYTOPLASMIC VIRUSES.
G J Hills K M Smith
J Invertebrate Pathol 1(2) 121-128, 7 REFS.
Aug 1959 421 J826
Insect diseases, Polyhedroses.

6549-68
LABORATORY EVALUATION OF SEVERAL INSECTICIDES AGAINST CHRYSOPS LARVAE.
R A Hoffman
J Econ Entomol 53(2) 262-263, BIBL. 262-263
Apr 1960 421 J822
Larvae, Lindane, Parathion.

6550-68
HISTOLOGICAL OBSERVATIONS ON THE DEVELOPMENT OF CRYSTALLINE INCLUSIONS OF THE RICKETTSIAL DISEASE OF TIPULA PALUDOSA MEIGEN.
A Huger
J Invertebrate Pathol 1(1) 60-66, 6 REFS.
May 1959 421 J826
Insect histology, Rickettsial diseases, Tipulidae.

6551-68
A VIRUS DISEASE OF THE INDIAN RHINOCEROS BEETLE, ORYCTES RHINOCEROS (LINNAEUS), CAUSED BY A NEW TYPE OF INSECT VIRUS, RHABDIONVIRUS ORYCTES GEN. N., SP. N..
A M Huger
J Invertebrate Pathol 8(1) 38-51, 15 REFS.
Mar 1966 421 J826
Coleoptera, Insect diseases.

6552-68
SEROLOGICAL STUDIES OF THE CYTOPLASMIC- AND NUCLEAR-POLYHEDROSIS VIRUSES OF THE SILKWORM, BOMBYX MORI.
T Bukuhara Y Hasaimoto
J Invertebrate Pathol 8(2) 234-239, 9 REFS., 4 TABS.
Jun 1966 421 J826
Bombyx mori, Culture media, Polyhedroses.

6553-68
STUDIES OF TWO STRAINS OF CYTOPLASMIC-POLYHEDROSIS VIRUS.
T Bukuhara Y Hashimoto
J Invertebrate Pathol 8(2) 184-192, 18 REFS., 2 TABS.
Jun 1966 421 J826
Bombyx mori, Polyhedroses.

6554-68
HISTOPATHOLOGICAL CHANGES WITH AGE IN THE FLIGHT MUSCLES OF THE AFRICAN MOSQUITO, ERETMAPODITES CHRYSOGASTER.
A R Hylton
J Invertebrate Pathol 8(1) 75-78, 5 REFS., 2 TABS.
Mar 1966 421 J826
Aging, Culicidae.

6555-68
EFFECTS OF AGE ON MORTALITY OF HELIOTHIS ZEA AND HELIOTHIS VIRESCENS LARVAE EXPOSED TO A NUCLEAR POLYHEDROSIS VIRUS.
C M Ignoffo
J Invertebrate Pathol 8(2) 279-282, 1 TAB.
Jun 1966 421 J826
Heliothis zea, Polyhedroses.

6556-68
A CYTOPLASMIC POLYHEDROSIS VIRUS, SMITHIAVIRUS PECTINOPHORAE SP. N. OF THE PINK BOLLWORM, PECTINOPHORA GOSSYPIELLA (SAUNDERS).
C M Ignoffo J R Adams
J Invertebrate Pathol 8(1) 59-66, 33 REFS., 3 TABS.
Mar 1966 421 J826
Heliothis zea, Pectinophora, Polyhedroses.

6557-68
THE EFFECTS OF CHEMICAL INSECTICIDES AND INSECTICIDAL ADJUVANTS OF A HELIOTHIS NUCLEAR POLYHEDROSIS VIRUS.
C M Ignoffo E L Montoya
J Invertebrate Pathol 8(3) 409-412, 18 REFS., 3 TABS.
Sep 1966 421 J826
Carbaryl, DDT , Endrin, Heliothis zea, Methyl parathion, Polyhedroses.

6558-68
EFFECTS OF TEMPERATURE ON MORTALITY OF HELIOTHIS ZEA LARVAE EXPOSED TO SUBLETHAL DOSES OF A NUCLEAR POLYHEDROSIS VIRUS.
C M Ignoffo
J Invertebrate Pathol 8(2) 290-292, 2 TABS.
Jun 1966 421 J826
Heliothis zea, Insect temperature, Mortality, Polyhedroses.

6559-68
THE RELATION OF PH TO THE ACTIVITY OF INCLUSION BODIES OF A HELIOTHIS NUCLEAR POLYHEDROSIS.
C M Ignoffo C Garcia
J Invertebrate Pathol 8(3) 426-427, 1 TAB.
Sep 1966 421 J826
Beliothis zea, Polyhedroses.

6560-68
A DETAILED MORPHOLOGICAL STUDY OF THE EXTERNAL AND INTERNAL GENITAL ORGANS OF FEMALE MELANAGROMYZA OBTUSA (MALLOCH), A SERICUS PEST OF CAJANUS INDICUS L. (AGROMYZIDAE, DIPTERA).
I M Ipe
Indian J Entomol 28 (3), 287-298 REF
Sep 1966 420 IN23
Cajanus indicus, Insect morphology, Melanagromyza obtusa, Reproductive organs.

6561-68
NOTE ON THE BIOLOGY OF ACRAEA BONASIA FABRICIUS FROM EASTERN NIGERIA (LEPIDOPTERA, NYMPHALIDAE.
M L Jerath
Panjab Univ Res Bull (N.S.) 17 (3/4), 227-231
Dec 1966 513 EA72
Acraea bonasia, Insects, Jute, Sweetpotatoes.
Abstract included.

6562-68
MECHANISM OF FOOD TRANSPORT IN CATTLE-TICK, BYALOMMA AEGYPTIUM.
K C Kanwar L Malik
Panjab Univ Res Bull (N.S.) 17 (3/4), 423-424
Dec 1966 513 EA72
Cattle, Digestion, Hyalomma aegyptium.

6563-68
THE SPIRAL THREAD.
U Kanwar
Panjab Univ Res Bull (N.S.) 17 (3/4), 409-411
Dec 1966 513 EA72
Chelonethida, Cytology, Diplotemnus insolitus, Spermatozoa, Spiral thread.

6564-68
TRANSOVARIAN TRANSMISSION OF SOME TBELOBANIA (NOSEMATIDAE MICROSPORIDIA) IN MOSQUITOES OF CALIFORNIA AND LOUISIANA.
W B Kellen H C Chapman T B Clark J E Lindegren
J Invertebrate Pathol 8(3) 355-359, 7 REFS., 2 TABS.
Sep 1966 421 J826
Culicidae, Insect diseases.

6565-68
THE BIOLOGICAL IMPACT OF THE CBECKERED BEETLES (COLEOPTERAO CLERIDAE) ON POPULATIONS OF IPS BARK BEETLES (COLEOPTERAO SCOLYTIDAE).
W E King
Diss Abstr Sect B 27 (12,PT.1), 4606B
Jun 1967 Z5055.U49D53
Cleridae, Enoclerus nigripes, Insect behavior, Insect biology, Ips avulsus, Ips grandicollis, Scolytidae.

6566-68
MORTALITY AND FERTILITY RESPONSE OF MUSCA DOMESTICA LINNAEUS TO CERTAIN KNOWN MUTAGENIC OR ANTI-TUMOR AGENTS.
J B Kissam
Diss Abstr Sect B 27 (12,PT.1), 4436B-4437B
Jun 1967 Z5055.U49D53
Antimetabolites, Chemical control (insects), Chemosterilants, Fertility, Mortality, Musca domestica,

Mutagens.

6567-68
STUDIES ON LIPIDS IN THE HEMOLYMPH OF THE SILKWORM, BOMBYX MORI, DURING THE COURSE OF NUCLEOPOLYHEDROSIS.
T Komano M Bimeno Y Ohno K Onodera
J Invertebrate Pathol 8(1) 67-74, 24 REFS.
Mar 1966 421 J826
Bombyx mori, Polyhedroses.

6568-68
ON NOSEMA HELIOTHIDIS LUTZ AND SPLENDOR, A MICROSPORIDIAN PARASITE OF HELICTHIS ZEA (BODDIE) AND HELIOTHIS VIRUSCENS (FABRICUS) (LEPIDOPTERA, PHALAENIDAE).
J P Kramer
J Invertebrate Pathol 1(3) 297-303, 7 REFS.
Oct 1959 421 J826
Heliothis, Heliothis zea, Insect diseases.

6569-68
ON THE PROBLEM OF CRYSTALS WITH RICKETTSIAL INFECTIONS.
A Kreig
J Invertebrate Pathol 1(1) 95
May 1959 421 J826
Inclusion bodies, Insect diseases, Rickettsial diseases.

6570-68
RELATIONSHIP BETWEEN METABOLISM AND DIFFERENTIAL TOXICITY IN INSECTS AND MICE OF DIAZINON, DIMETHOATE, PARATHION, AND ACETHION.
B R Krueger R D O Brien W C Dauterman
J Econ Entomol 53(1) 25-31, BIBL. 30-31, TABS.
Feb 1960 421 J822
Acethion, Diazinon, Dimethoate,
Insecticide resistant insects, Insects, Metabolism, Mice, Musca domestica, Parathion, Periplaneta, Periplaneta americana, Toxicology.

6571-68
A MICROSPORIDIAN, THELOHANIA SP., IN PIERIS RAPAE.
F M Laigo J D Paschke
J Invertebrate Pathol 8(2) 269-270
Jun 1966 421 J826
Bacteria, Insect diseases, Pieris.

6572-68
VARIATIONS IN TOTAL HEMOCYTE COUNTS AS INDUCED BY A NOSEMOSIS IN THE CABBAGE LOOPER, TRICHOPLUSIA NI.
F M Laigo J D Paschke
J Invertebrate Pathol 8(2) 175-179, 7 REFS., 1 TAB.
Jun 1966 421 J826
Bacteria, Blood cells, Insect diseases.

6573-68
FLAGELLATED PROTOZOA (TRYPANOSOMIDAE) IN THE BONEY BEE, APIS MELLIFERA, IN AUSTRALIA.
D F Langridge
J Invertebrate Pathol 8(1) 124-125
Mar 1966 421 J826
Apis mellifera, Insect diseases, Protozoa.

6574-68
EFFECT OF DDT RESISTANCE ON THE DEVELOPMENT OF MALATHION RESISTANCE IN HOUSE FLIES.
G C LaBrecque B G Wilson
J Econ Entomol 53(2) 320-321, BIBL.
Apr 1960 421 J822
DDT , Malathion, Musca domestica.

6575-68
PRELIMINARY LABORATORY RESULTS ON THE SUSCEPTIBILITY OF AEDES AEGYPTI (LINNAEUS) TO BACILLUS THURINGIENSIS BERLINER.
J N Liles P H Dunn
J Invertebrate Pathol 1(3) 309-310, 1 TAB.
Oct 1959 421 J826
Aedes aegypti, Bacteria, Insect diseases.

6576-68
NOSEMA LEPTOCORIDIS SP. N., MICROSPORIDIAN PARASITE OF LEPTOCORIS TRIVITTATUS (SAY) (HEMIPTERA).
J J Lipa
J Invertebrate Pathol 8(2) 250-251
Jun 1966 421 J826
Insect diseases, Parasitism.

6577-68
NOSEMA HIPPODAMIAE N. SP., A MICROSPORIDIAN PARASITE OF HIPPODAMIA CONVERGENS GUERIN (COLEOPTERA, COCCINELLIDAE).
J J Lipa E A Steinhaus
J Invertebrate Pathol 1(3) 304-308
Oct 1959 421 J826
Coccinellidae, Insect diseases, Protozoa.

6578-68
MISCELLANEOUS OBSERVATIONS ON PROTOZOAN INFECTIONS OF NEPA CINNEREA LINNAEUS INCLUDING DESCRIPTIONS OF TWO PREVIOUSLY UNKNOWN SPECIES OF MICROSPORIDIA, NOSEMA BIALOVIESIANAE SP. N. AND THELOHANIA NEPAE SP.N.
J L Lipa
J Invertebrate Pathol 8(2) 158-166, 14 REFS., 1 TAB.
Jun 1966 421 J826
Insect diseases, Protozoa.

6579-68
DDT-DEHYDROCHLORINASE III. SOLUBILIZATION OF INSECTICIDES BY LIPOPROTEIN.
H Lipke C W Kearns
J Econ Entomol 53(1) 31-35, BIBL. 34-35
Feb 1960 421 J822
DDT , DDT-DEHYDROCHLORINASE , Lipovitellin, Musca domestica, Solubilization tecnique.

6580-68
THE RELATION BETWEEN OXYGEN CONSUMPTION AND BACTERIAL INFECTION IN SAWFLIES.
O Lysenko K Slama
J Invertebrate Pathol 1(2) 184-188, 3 REFS., 1 TAB.
Aug 1959 421 J826
Bacteria, Insect diseases, Oxygen.

6581-68
EXPERIMENTS ON PROLONGATION OF THE LIFE OF MOSQUITO LARVAE BY UNDERFEEDING.
S Marcovitch
J Econ Entomol 53(1) 169, BIBL.
Feb 1960 421 J822
Culicidae, Feeding, Insecticides, Larvae, Toxicology.

6582-68
HYPOPROTEINEMIA IN A NOCTUID LARVA DURING THE COURSE OF A GRANULOSIS.
M E Martignoni J E Milstead
J Invertebrate Pathol 8(2) 261-263
Jun 1966 421 J826
Granuloses, Noctuidae.

6583-68
MORPHOLOGY OF THE ALIMENTARY CANAL AND ASSOCIATED GLANDS OF THE MATURE LARVA OF ACHAEA JANATA L. (LEPIDOPTERA, NOCTUIDAE).
L M L Mathur
Indian J Entomol 28 (3), 318-331 REF
Sep 1966 420 IN23
Achaea janata, Glands (insects), Insect morphology.

6584-68
BEAUVERIA DENSA, PATHOGENIC FOR THE LARVAE OF CHILO ZONELLUS.
S B Mathur R P Srivastava B R S Rao
J Invertebrate Pathol 8(2) 274-276, 4 TABS.
Jun 1966 421 J826
Chilo, Entomogenous fungi, Insect diseases.

6585-68
RECORD OF NEMATODES PARASITISING CHILO ZONELLUS SWINHOE STEM BORER OF MAIZE.
S B Mathur R P Srivastava B R S Rao
Indian J Entomol 28 (3), 414-415
Sep 1966 420 IN23
Chilo zonellus, Corn, Nematodes, Neoaplectana chresina, Parasitism.

6586-68
TRANSMISSION OF TUMORS IN LOCUSTA MIGRATORIA LINNAEUS BY NUCLEIC ACID EXTRACTED FROM THE TUMORS.
G Matz J Weil P Joly J Ebel
J Invertebrate Pathol 8(1) 8-13, 10 REFS., 4 TABS.
Mar 1966 421 J826
Acrididae, Insect diseases.

6587-68
THE EFFECT OF INSECTICIDES ON TRANSAMINATION IN TH AMERICAN COCKROACH.
J W McAllan A W A Brown
J Econ Entomol 53(1) 166-167, BIBL.
Feb 1960 421 J822
DDT , Endrin, Insecticides, Malathion, Periplaneta, Sodium cyanide, Sodium orthoarsenate, Toxaphene, Transamination.

6588-68
MICROBIAL CONTROL OF TWO CABBAGE INSECTS.
F L McEwen G E L Hervey
J Invertebrate Pathol 1(1) 86-94, 10 REFS., 4 TABS.
May 1959 421 J826
Biological control (insects), Trichoplusia.

6589-68
BACTERIA AND FUNGI ASSOCIATED WITH DEAD BOLL WEEVILS (ANTHONOMUS GRANDIS) IN A NATURAL POPULATION.
R E McLaughlin M R Bell S D Veal
J Invertebrate Pathol 8(3) 401-408, 14 REFS., 5 TABS.
Sep 1966 421 J826
Anthonomus grandis, Bacteria, Entomogenous fungi, Insect diseases.

6590-68
MEMBRACIDAE ATTRACTED TO BLACK LIGHT.
J T Medler P W Smith
J Econ Entomol 53(1) 173-174, BIBL.
Feb 1960 421 J822
Coleoptera, Corixidae, Equipment, Lepidoptera, Light traps, Membracidae, Trichoptera.

6591-68
BIONOMICS OF HEMITHEA TRITONARIA WALKER (LEPIDOPTERA, GEOMETRIDAE), A PEST OF MOGHANIA MACROPHYLLA (WILLD) O KTZE.
B P Mehra B N Sah
Indian J Entomol 28 (3), 345-350
Sep 1966 420 IN23
Hemithea tritonaria, Insect biology, Insect pests, Moghania macrophylla.

6592-68
ESTABLISHMENT OF AN INSECT CELL STRAIN PERSISTENTLY INFECTED WITH AN INSECT VIRUS.
J Mitsuhashi
Nature 215 (5103), 863-864
19 Aug 1967 472 N21
Blood, Cells, Insects, Tissue culture, Viruses.

6593-68
FLOW RELATIONSHIPS FOR HEMIPTEROUS STYLETS.
T E Mittler
Entomol Soc Amer Ann 60 (5), 1112-1114
Sep 1967 420 EN82
Aphididae, Hemiptera, Stylets.

6594-68
THE LIFE HISTORY AND THE MORPHOLOGY OF THE EARTHWORM MITE, UROACTINIA ANCHOR (TROUESSART, 1902) (ACARINAO UROPODIDAE) WITH PRELIMINARY ETHNOLOGICAL STUDY OF BEHAVIOR.
T Miura
Diss Abstr Sect B 27 (12,PT.1), 4437B-4438B
Jun 1967 Z5055.U49D53
Earthworms, Metamorphosis, Mites.

6595-68
SUCCINOXIDASE ACTIVITY IN TWO SPECIES OF BRACON (HYMENOPTERA, BRACONIDAE).
T J Mizianty
Entomol Soc Amer Ann 60 (5), 1092-1094
Sep 1967 420 EN82
Bracon hebetor, Bracon serinopae, Iodophenyl-3-nitrophenyl-5-phenyltetrazolium chloride, 2-p-,* Succinoxidase, Triphenyltetrazolium chloride.
Abstract included.

6596-68
LABORATORY TECHNIQUE AND APPARATUS FOR TESTING VIRUSES APPLIED AS DUSTS.
E L Montoya C M Ignoffo
J Invertebrate Pathol 8(2) 251-254, 1 TAB.
Jun 1966 421 J826
Biological assay, Heliothis zea, Insect diseases, Insecticides.

6597-68
A FEEDING STIMULANT TO INCREASE EFFECTIVENESS OF, AND A FIELD TEST WITH, A NUCLEAR POLYHEDROSIS VIRUS OF HELIOTHIS.
E L Montoya C M Ignoffo R L McGarr
J Invertebrate Pathol 8(3) 320-324, 9 REFS., 3 TABS.
Sep 1966 421 J826
Feed additives, Heliothis zea, Polyhedroses.

6598-68
RNA CHANGES IN INSECT TISSUE WITH A NUCLEAR-POLYHEDROSIS VIRUS.
O N Morris
J Invertebrate Pathol 8(1) 35-37, 13 REFS.
Mar 1966 421 J826
Polyhedroses.

6599-68
INCORPORATION OF RADIOACTIVE URIDINE INTO THE RNA OF THE LEPIDOPTERAN BARATHRA BRASSICAE.
O N Morris
J Invertebrate Pathol 8(2) 259-261
Jun 1966 421 J826
Autoradiography, Barathra, Insect diseases, Ribonucleic acid, Uridine.

6600-68
A SIMPLIFIED PURIFICATION TECHNIQUE FOR PARASPORAL INCLUSIONS FROM CERTAIN VARIETIES OF BACILLUS THURENGIENSIS.
E D Murray E Y Spencer
J Invertebrate Pathol 8(3) 418-420
Sep 1966 421 J826
Bacteria, Culture media.

6601-68
THE EFFECT OF INTRASPECIFIC AND INTERSPECIFIC INSEMINATION ON FECUNDITY IN DROSOPHILA MALERKOTLIANA AND DROSOPHILA BIPECTINATA.
R D Narda
Panjab Univ Res Bull (N.S.) 17 (3/4), 417-419
Dec 1966 513 EA72
Artificial insemination, Drosophila bipectinata, Drosophila malerkotliana, Fertility.

6602-68
STORAGE OF QUEEN HONEY BEES, APIS MELLIFERA (HYMENOPTERA, APIDAE), IN SOLITARY CONFINEMENT.
E V Nelson W C Roberts
Entomol Soc Amer Ann 60 (5), 1114-1115
Sep 1967 420 EN82
Queen bees.

6603-68
BIOLOGY OF THE CONVERGENT LADY BEETLE WHEN FED A SPOTTED ALFALFA APHID DIET.
M W Nielson W E Currie
J Econ Entomol 53(2) 257-259, BIBL., TABS.
Apr 1960 421 J822
Feeding.

6604-68
EVIDENCE OF SEX ATTRACTANT IN FEMALE DYSDERCUS CINGULATUS FABR.
Z Osmani M B Naidu
Indian J Exp Biol 05 (1), 51
Jan 1967 442.8 IN2
Sex attractants.

6605-68
THE FREE FATTY ACIDS AND NEUTRAL LIPIDS OF THE CUTICULAR WAX OF THE MORMON CRICKET, ANABRUS SIMPLEX, HALD.
J M Padmore
Diss Abstr Sect B 27 (12,PT.1), 4267B
Jun 1967 Z5055.U49D53
Anabrus simplex, Cuticle, Fatty acids, Lipids, Waxes.

6606-68
STRUCTURE AND METAMORPHIC CHANGES IN THE FAT BODY OF CALLOSOBRUCHUS MACULATUS (F.) (BRUCHIDAE, COLEOPTERA).
H R Pajni
Panjab Univ Res Bull (N.S.) 17 (3/4), 315-317
Dec 1966 513 EA72
Bruchidae, Callosobruchus maculatus, Fat body.
Abstract included.

6607-68
MORPHOLOGICAL IDENTIFICATION OF VIRUS-LIKE PARTICLES IN THE CORN LEAF APHID, RHOPALOSIPHUM MAIDIS (FITCH).
W B Parrish J D Briggs
J Invertebrate Pathol 8(1) 122-123
Mar 1966 421 J826
Insect diseases, Rhopalosiphum.

6608-68
THE PATHOLOGY OF A NUCLEAR POLYHEDROSIS OF RACHIPLUSIA-OU-(GUENEE) (LEPIDOPTERA) NOCTUIDAE).
J D Paschke H A Sweet
J Invertebrate Pathol 8(1) 1-7, 11 REFS., 1 TAB.
Mar 1966 421 J826
Geometridae, Insect diseases.

6609-68
THE TOXICITY OF EXTRACTS FROM FOULBROOD SCALE RESIDUES FOR HONEY-BEE LARVAE MAINTAINED IN-VITRO.
N G Patel T A Gochnauer
J Invertebrate Pathol 1(2) 190-192, 1 TAB.
Aug 1959 421 J826
Bee diseases.

6610-68
INVERTEBRATE PATHOLOGY, CYTOLOGY, AND DEVELOPMENT.
C Pavan R Basile
J Invertebrate Pathol 8(1) 131-132
Mar 1966 421 J826
Diptera, Insect diseases, Insect morphology.

6611-68
POLLINATION OF RED CLOVER IN MINNESOTA.
A G Peterson E Purgala F G Holdaway
J Econ Entomol 53(4) 546-550, BIBL.
Aug 1960 421 J822
Apis mellifera, Pollination, Red clover, Sweetclover.

6612-68
OCCURRENCE OF MITE VARROA JACOBSONI OUDEMANS IN BROOD CELLS OF HONEY BEE, APIS INDICAP.
K G Phadke D S Bisht R B P Sinha
Indian J Entomol 28 (3), 411-412
Sep 1966 420 IN23
Honeycombs, Insect diseases, Mites, Varroa jacobsoni.

6613-68
THE HOUSE CRICKET, ACHETA DOMESTICUS, AND THE HOUSE FLY, MUSCA DOMESTICA, AS A MODEL PREDATOR-PREY SYSTEM.
D Pimentel F Cranston
J Econ Entomol 53(1) 171-172, BIBL.
Feb 1960 421 J822
Acheta, Insect behavior, Musca domestica, Predaceous insects.

6614-68
A NEMATCDE PARASITE OF THE ALFALFA WEEVIL (HYPERA POSTICA (GYLL.)).
G O Poinar Jr G G Gyrisco
J Econ Entomol 53(1) 178-179, PI.
Feb 1960 421 J822
Hypera, Larvae, Nematodes, Parasitism.

6615-68
TWO NEW SPECIES OF PARASITES REARED FROM STOMOPTERYX NERTE NERTERIA (MEYRICK) (LEPIDOPTERA, GELECHIDAE).
B R S Rao A K Sharma
Indian J Entomol 28 (3), 299-304
Sep 1966 420 IN23
Arachis hypogea, Parasitic insects, Stomopteryx nerteria.

6616-68
DISPERSAL OF VIABLE ALGAE AND PROTOZOA BY HORSE FLIES AND MOSQUITOES (DIPTERA, TABANIDAE, CULICIDAE).
D L Revill K W Stewart H E Schlichting
Entomol Soc Amer Ann 60 (5), 1077-1081 REF
Sep 1967 420 EN82
Algae, Musca domestica, Protozoa, Tabanidae.
Abstract included.

6617-68
A CONOPID FLY PARASITE FOUND IN THE HONEY BEE.
S M Riedel H Shimanuki
J Invertebrate Pathol 8(2) 272-273, 1 TAB.
Jun 1966 421 J826
Apis mellifera, Bee diseases, Diptera.

6618-68
TOXINS FROM THE ENTOMOGENOUS FUNGUS METARRHIZIUM ANISOPLIAE I. PRODUCTION IN SUBMERGED AND SURFACE CULTURES, AND IN INORGANIC AND ORGANIC NITROGEN MEDIA.
D W Roberts
J Invertebrate Pathol 8(2) 212-221, 25 REFS., 1 TAB.
Jun 1966 421 J826
Biological assay, Entomogenous fungi, Galleria, Insect diseases.

6619-68
TOXINS FROM THE ENTOMOGENOUS FUNGI METARRHIZIUM ANISOPLIAE. II. SYMPTOMS AND DETECTION IN MORIBUND HOSTS.
D W Roberts
J Invertebrate Pathol 8(2) 222-227, 8 REFS., 2 TABS.
Jun 1966 421 J826
Bombyx mori, Entomogenous fungi, Galleria, Insect diseases.

6620-68
THE VENOM OF THE MUD-DAUBER WASP SCELIPHRON CAEMENTARIUM.
W Rosenbrook
Diss Abstr Sect B 27 (12,PT.1), 4325B
Jun 1967 Z5055.U49D53
Hymenoptera, Sceliphron caementarium, Venoms.

6621-68
GROWTH AND SPORULATION OF SUBMERSED CULTURES OF THE FUNGUS BEAUVERIA BASSIANA IN VARIOUS MEDIA.
A Samsinakova
J Invertebrate Pathol 8(3) 395-400, 11 REFS., 2 TABS.
Sep 1966 421 J826
Culture media, Entomogenous fungi.

6622-68
TESTING OF PESTICIDES AGAINST CABBAGE APHID, BREVICORYNE BRASSICAE LINN.
P Sarup S Wadhwa D S Singh R Lal
Indian J Entomol 28 (3), 369-374
Sep 1966 420 IN23
Chemical control (insects), Pesticides, Toxicology.

6623-68
POSTEMBRYONIC DEVELOPMENT OF THE OPTIC GANGLIA IN BOMBYX MORI.
R C Satija S Kaur
Panjab Univ Res Bull (N.S.) 17 (3/4), 297-304 REF
Dec 1966 513 EA72
Bombyx mori, Optic nerve.
Abstract included.

6624-68
POSTEMBRYONIC DEVELOPMENT OF THE BRAIN IN BOMBYX MORI.
R C Satija S Kaur
Panjab Univ Res Bull (N.S.) 17 (3/4), 353-365 REF
Dec 1966 513 EA72
Bombyx mori, Brain, Insect physiology.
Abstract included.

6625-68
HISTOLOGICAL STUDIES ON THE DEUTOCEREBRUM OF POECILOCERUS PICUS F (ORTHOPTERA) AND MANTIS RELIGIOSA L (DICTYOPTERA).
R C Satija S P Sharma
Panjab Univ Res Bull (N.S.) 17 (3/4), 233-235
Dec 1966 513 EA72
Cytology, Deutocerebrum, Mantis religiosa, Poecilocerus pictus.
Abstract included.

6626-68
SUSCEPTIBILITY OF NINE INSECT SPECIES TO INFECTION BY BACILLUS THURINGIENSIS VAR. THURINGIENSIS.
M U Shaikh F O Morrison
J Invertebrate Pathol 8(3) 347-350, 6 REFS., 4 TABS.
Sep 1966 421 J826
Insect diseases, Insects.

6627-68
AN ARTIFICIAL OVIPOSITIONAL SITE FOR SOME HETEROPTERA THAT INSERT THEIR EGGS INTO PLANT TISSUE.
J T Shimizu K S Hagen
Entomol Soc Amer Ann 60 (5), 1115-1116
Sep 1967 420 EN82
Anthocoris antevolens, Insect eggs, Lygus hesperus, Nabis americoferus, Orius tristicolor, Ovipositors.

6628-68
BIOLOGY AND EVALUATION OF CERTAIN PREDATORS OF THERIOAPHIS MACULATA (BUCKTON).
R G Simpson C C Burkhardt
J Econ Entomol 53(1) 89-94, BIBL., TABS., PL.
Feb 1960 421 J822
Aphididae, Biology, Hippodamia convergens.

6629-68
FIRST RECORDS OF HYMENOPTEROUS PARASITES OF YELLOW SCALE OF COTTON CEROCOCCUS HIBISCI GREEN (HOMOPTERA, COCCIDAE).
Y Singh Q A Abbasi
Indian J Entomol 28 (3), 413-414
Sep 1966 420 IN23
Cerococcus hibisci, Cotton, Hymenoptera, Parasitism.

6630-68
HISTOLOGY OF THE BRAIN OF LABIDURA RIPARIA (PALLAS) DERMAPTERA).
C L Singla S P Sharma
Panjab Univ Res Bull (N.S.) 17 (3/4), 267-276 REF
Dec 1966 513 EA72

10 6631-68

Brain, Dermaptera, Labidura riparia.
Abstract included.

6631-68
A SUBSTANCE IN SOME COMMERCIAL PREPARATIONS OF BACILLUS THURINGIENSIS VAR. THURINGIENSIS TOXIC TO SAWFLY LARVAE.
W A Smirnoff L Berlinguet
J Invertebrate Pathol 8(3) 376-381, 17 REFS., 6 TABS.
Sep 1966 421 J826
Insect diseases, Tenthredinidae, Thuricide.

6632-68
THELOHANIA PRISTIPHORAE SP. N., A MICROSPORIDIAN PARASITE OF THE LARCH SAWFLY, PRISTIPHORA ERICHSONII (HYMENOPTERA TENTHREDINIDAE.
W A Smirnoff
J Invertebrate Pathol 8(3) 360-364, 1 REF., 1 TAB.
Sep 1966 421 J826
Insect diseases, Pristiphora.

6633-68
ACTION OF DDT AT AN INSECT SYNAPSE.
T Smith Jr
J Econ Entomol 53(1) 170-171, BIBL.
Feb 1960 421 J822
DDT , Insects, Periplaneta, Synapses.

6634-68
PATHOGENICITY OF EXTERNALLY OCCURRING FUNGI TO RETICULITERMES FLAVIPES.
R V Smythe H C Coppel
J Invertebrate Pathol 8(2) 266-267, 1 TAB.
Jun 1966 421 J826
Biological control (insects), Fungi, Termites.

6635-68
OBSERVATIONS ON THE BIOLOGY OF PSOROPHORA CYANESCENS.
W E Snow E Pickard J L Hawkins
J Econ Entomol 53(4) 619-621, BIBL.
Aug 1960 421 J822
Biology, Insect behavior, Psorophora.

6636-68
TETRAHYMENA SP. PARASITIC IN THE LARVAE OF CHILO ZONELLUS (SWINHOE).
R P Srivastava S B Mathur B R S Rao
Indian J Entomol 28 (3), 365-368 REF
Sep 1966 420 IN23
Chilo zonellus, Parasitism, Tetrahymena.

6637-68
POSSIBLE VIRUS DISEASE IN THE EUROPEAN RED MITE.
E A Steinhaus
J Invertebrate Pathol 1(4) 435-437
Dec 1959 421 J826
Insect diseases, Panonychus.

6638-68
A CYTOPLASMIC POLYHEDROSIS OF THE ALFALFA CATERPILLAR.
E A Steinhaus J P Dineen
J Invertebrate Pathol 1(2) 171-183, 7 REFS.
Aug 1959 421 J826
Colias, Polyhedroses.

6639-68
THE BIOLOGICAL EVALUATION OF SPRAY ADDITIVES AND SOLVENTS WITH BLATTELLA GERMANICA (LINN) AND PERIPLANETA AMERICANA (LINN.).
P D Sterling
Diss Abstr Sect B 27 (12,PT.1), 4611B
Jun 1967 Z5055.U49D53
Biological assay, Blattella germanica, Diazinon, Insect repellents, Insecticide additives, Periplaneta americana, Solvents, Spraying, Theses.

6640-68
THE UTILIZATION OF BACILLUS THURINGIENSIS BERLINER AS A BIOTIC INSECTICIDE TO SUPPRESS THE ALFALFA CATERPILLAR.
V M Stern I M Hall G D Peterson
J Invertebrate Pathol 1(2) 142-151, 11 REFS., 3 TABS.
Aug 1959 421 J826
Bacillus thuringiensis, Bacteria, Biological control (insects), Colias, Colias eurytheme.

6641-68
MOTILE STREPTOCOCCI FROM THE DESERT LOCUST, SCHISTOCERCA GREGARIA.
J P Stevenson
J Invertebrate Pathol 8(2) 258-259
Jun 1966 421 J826

Bacteria, Schistocerca.

6642-68
AN INFECTION OF THE DESERT LOCUST, SCHISTOCERCA GREGARIA FORSKAL WITH A NONCHROMOGENIC STRAIN OF SERRATIA MARCESCENS BIZIO.
J P Stevenson
J Invertebrate Pathol 1(2) 129-141, 8 REFS., 6 TABS.
Aug 1959 421 J826
Polyhedroses, Schistocerca, Schistocerca gregaria.

6643-68
THE NORMAL BACTERIAL FLORA OF THE ALIMENTARY CANAL OF LABORATORY STOCKS OF THE DESERT LOCUST, SCHISTOCERCA GREGARIA FORSKAL.
J P Stevenson
J Invertebrate Pathol 8(2) 205-211, 14 REFS., 3 TABS.
Jun 1966 421 J826
Bacteria, Insect physiology, Schistocerca.

6644-68
EPIZOOTIOLOGY OF A DISEASE OF THE DESERT LOCUST, SCHISTOCERCA GREGARIA (FORSKAL), CAUSED BY NONCHROMOGENIC STRAINS OF SERRATIA MARCESCENS BIZIO.
J P Stevenson
J Invertebrate Pathol 1(3) 232-244, 16 REFS.
Oct 1959 421 J826
Bacteria, Insect diseases, Schistocerca.

6645-68
INFECTION OF THE GARDEN SYMPHYLAN, SCUTIGERELLA IMMACULATA WITH THE DD-136 NEMATODE.
K G Swenson
J Invertebrate Pathol 8(1) 133-134
Mar 1966 421 J826
Biological control (insects), Scutigerella.

6646-68
DESCRIPTIONS AND CHARACTERISTICS OF A NUCLEAR POLYHEDROSIS VIRUS AND A GRANULOSIS VIRUS OF THE ARMYWORM, PSEUDALETIA UNIPUNCTA (HAWORTH) (LEPIDOPTERA, NOCTUIDAE).
Y Tanada
J Invertebrate Pathol 1(3) 197-214, 16 REFS., 5 TABS.
Oct 1959 421 J826
Granuloses, Polyhedroses, Pseudaletia.

6647-68
SYNERGISM BETWEEN TWO VIRUSES OF THE ARMYWORM, PSEUDALETIA UNIPUNCTA (HAWORTH) (LEPIDOPTERA, NOCTUIDAE).
Y Tanada
J Invertebrate Pathol 1(3) 215-231, 8 REFS., 7 TABS.
Oct 1959 421 J826
Granuloses, Polyhedroses, Pseudaletia.

6648-68
VIRULENCE OF SPECIES AND STRAINS OF MILKY DISEASE BACTERIA IN THE EUROPEAN CHAFER, AMPHIMALLON MAJALIS (RAZOUMOWSKY).
H Tashiro K H Steinkraus
J Invertebrate Pathol 8(3) 382-389, 8 REFS., 4 TABS.
Sep 1966 421 J826
Amphimallon, Milky disease.

6649-68
THERMAL INHIBITION OF CERTAIN POLYHEDROSIS VIRUS DISEASES.
C C Thompson
J Invertebrate Pathol 1(2) 189-190
Aug 1959 421 J826
Heat, Heliothis zea, Polyhedroses, Trichoplusia.

6650-68
ON THE PATHOGENESIS OF SIMULTANEOUS VIRUS INFECTIONS IN INSECTS.
C Vago
J Invertebrate Pathol 1(1) 75-79, 12 REFS.
May 1959 421 J826
Insect diseases, Pieris, Polyhedroses.

6651-68
ORAL INFECTION OF SECOND-INSTAR NYMPHS OF SCHISTOCERCA GREGARIA BY METARRHIZIUM ANISOPLIAE.
K H Veen
J Invertebrate Pathol 8(2) 254-256
Jun 1966 421 J826
Entomogenous fungi, Schistocerca.

6652-68
A SELECTIVE MEDIUM FOR THE ISOLATION OF BEAUVERIA TENELLA AND OF METARRHIZIUM ANISOPLIAE.
K H Veen P Ferron

J Invertebrate Pathol 8(2) 268-269
Jun 1966 421 J826
Culture media.

6653-68
STUDIES OF WATER CONSERVATION IN COCKROACHES.
B J Wall
Diss Abstr Sect B 27 (12,PT.1), 4253B
Jun 1967 Z5055.U49D53
Blattidae, Insect physiology, Periplaneta americana, Water.

6654-68
THE EFFECTS ON HOUSE FLIES OF ADDING WHEAT GERM AND CORN OILS TO FLY MEDIA.
G W Ware A C Terranova
J Econ Entomol 53(2) 325-326, BIBL.
Apr 1960 421 J822
Corn, Musca domestica, Oils, Vitamin e, Wheat germ.

6655-68
THE PENETRATION OF PIPERONYL BUTOXIDE AS A SYNERGIST AND AS AN ANTAGONIST IN MUSCA DOMESTICA L.
G W Ware
J Econ Entomol 53(1) 14-16, BIBL.
Feb 1960 421 J822
Carbaryl, Malathion, Musca domestica, Piperonyl butoxide.

6656-68
THE INFLUENCE OF SELECTION PRESSURE ON THE DEVELOPMENT OF RESISTANCE IN POPULATIONS OF TETRANYCHUS TELARIUS (L.).
D L Watson J A Naegele
J Econ Entomol 53(1) 80-84, BIBL., TABS.
Feb 1960 421 J822
Drosophila, Insecticide resistant insects, Musca domestica, Parathion.

6657-68
EFFECTS OF HETEROGENEOUS DISTRIBUTION AND CODISTILLATION ON THE RESULTS OF TESTS WITH DDT AGAINST MOSQUITO LARVAE.
D E Weidhaas C H Schmidt M C Bowman
J Econ Entomol 53(1) 121-125, BIBL. 124-125, TABS.
Feb 1960 421 J822
Culicidae, Dieldrin, Distillation, DDT , Larvae, Lindane, Malathion, Mortality, Parathion.

6658-68
TOXICOLOGICAL ACTION OF DDT ON THREE SPECIES OF MOSQUITO LARVAE.
D E Weidhaas C H Schmidt
J Econ Entomol 53(1) 106-110, BIBL. 109-110
Feb 1960 421 J822
Aedes, Anopheles, Culicidae, DDT , Larvae, Toxicology.

6659-68
OXYGEN CONCENTRATION IN LARVAL HEMOLYMPH OF THE JAPANESE BEETLE, POPILLIA JAPONICA, INFECTED WITH BACILLUS POPILLIAE.
B A Weiner W F Kwolek G St. Julian H B Hall R W Jackson
J Invertebrate Pathol 8(3) 308-313, 9 REFS., 3 TABS.
Sep 1966 421 J826
Insect diseases, Popillia.

6660-68
A NEWLY DESCRIBED VIRUS OF THE WINTER MOTH, OPEROPHTHERA BRUMATA HUBNER (LEPIDOPTERA, GEOMETRIDAE).
J Weiser C Vago
J Invertebrate Pathol 8(3) 314-319, 6 REFS.
Sep 1966 421 J826
Insect diseases, Cperophtera.

6661-68
STUDIES ON OVARIAN STRUCTURE, FUNCTION AND GROWTH IN ADULT DROSOPHILA PSEUDO-OBSCURA.
M F Wolfsberg
Diss Abstr Sect B 27 (12,PT.1), 4253B-4254B
Jun 1967 Z5055.U49D53
Drosophila pseudoobscura, Insect anatomy, Insect physiology, Ovaries.

6662-68
A TECHNIQUE USEFUL IN COMPARING POWDER-POST BEETLE POPULATIONS IN THE SUBSTRUCTURES OF BUILDINGS.
C G Wright
J Econ Entomol 53(2) 329-330, PL.
Apr 1960 421 J822
Coleoptera, Lyctidae.

6663-68
LIGHT MICROSCOPY OF THE VIROGENIC STROMATA OF CYTOPOLYHEDROSES.
N Xeros
J Invertebrate Pathol 8(1) 79-87, 20 REFS.
Mar 1966 421 J826
Caterpillars, Microscopy, Polyhedroses.

6664-68
THE CHROMOSOMES AND VIROGENIC STROMA IN THE NUCLEARPOLYHEDROSIS OF TIPULA POLUDOSA.
N Xeros
J Invertebrate Pathol 8(2) 240-249, 11 REFS.,
Jun 1966 421 J826
Polyhedroses.

6665-68
THE REPRODUCTIVE SYSTEM OF THE PINK SUGARCANE MEALYBUG, SACCHARICOCCUS SACCHARI COCKERELL (HOMOPTERA, PSEUDOCOCIDAE.
R L Yadava
Indian J Entomol 28 (3), 351-358 REF
Sep 1966 420 IN23
Reproductive organs, Saccharicoccus sacchari, Sugarcane.

6666-68
NATURAL IMMUNITY OF THE BUG TRIATOMA INFESTANS TO THE PROTOZOAN TRYPANOSOMA RANGELI.
R Zeledon E de Monge
J Invertebrate Pathol 8(3) 420-424, 3 TABS.
Sep 1966 421 J826
Immunity, Insect diseases, Parasitism, Triatoma.

Genetics

6667-68
SELECTION RESPONSE AND GENETICS OF PARATHION RESISTANCE IN THE PACIFIC SPIDER MITE, TETRANYCHUS PACIFICUS.
L A Andres T Prout
J Econ Entomol 53(4) 626-630, TABS.
Aug 1960 421 J822
Aramite, Insect genetics, Parathion, Tetranychus.

6668-68
EFFECTS OF X-RAYS, TRYPTOPHAN METABOLITES, AND EYE COLOR MUTANTS ON THE TUMOR-SUPPRESSOR SYSTEM IN DROSOPHILA MELANOGASTER.
G T Brooks
Diss Abstr Sect B 27 (12,PT.1), 4597B
Jun 1967 Z5055.U49D53
Drosophila melanogaster, Eyes, Insect genetics, Insect mutation, Metabolites, Neoplasms, Theses, Tryptophan, X-rays.

6669-68
CORRELATION BETWEEN SPERM REDUNDANCY AND CHIASMA FREQUENCY.
J Cohen
Nature 215 (5103), 862-863
19 Aug 1967 472 N21
Chromosomes, Cytology, Insect genetics, Schistocerca, Spermatogenesis.

6670-68
BREEDING PIERIS BRASSICAE APPARENTLY FREE FROM GRANULOSIS VIRUS.
W A L David B O C Gardiner
J Invertebrate Pathol 8(3) 325-333, 21 REFS., 1 TAB.
Sep 1966 421 J826
Breeding, Granuloses, Pieris.

6671-68
CYTOLOGICAL AND AUTORADIOGRAPHIC STUDIES ON SCIARA COPROPHILA SALIVARY GLAND CHROMOSOMES.
N Gabrusewycz-garcia
Diss Abstr Sect B 27 (12,PT.1), 4246B
Jun 1967 Z5055.U49D53
Autoradiography, Chromosomes, Cytology, Salivary glands (insects), Sciara coprophila.

10 6672-68

6672-68
USE OF INSECTS FOR THEIR OWN DESTRUCTION.
E F Knipling
J Econ Entomol 53(3) 415-420, BIBL., TABS.
Jun 1960 421 J822
Callitroga, Chemical control (insects), Gamma rays, Sterilization.

6673-68
GENETIC VARIATION IN A TWO-SPOTTED SPIDER MITE, TETRANYCHUS URTICAE, POPULATION PLATEAUED BY DIRECTED SELECTION (ACARINA, TETRANYCHOIDAE).
W D Mcenroe
Entomol Soc Amer Ann 60 (5), 1081-1083
Sep 1967 420 EN82
Insect genetics, Tetranychus urticae.
Abstract included.

6674-68
EXCHANGE AND SECONDARY NONDISJUNCTION IN FEMALES OF DROSOPHILA MELANOGASTER HOMOZYGOUS FOR X CHROMOSOME INVERSIONS.
J R Merriam
Diss Abstr Sect B 27 (12,PT.1), 4248B-4249B
Jun 1967 Z5055.U49D53
Chromosomes, Drosophila melanogaster, Insect genetics.

6675-68
KARYOLOGICAL STUDIES ON THE INDIAN SPIDERS. VI. CHROMOSOME NUMBER AND SEX-DETERMINING MECHANISM IN THE FAMILY ARANEIDAE).
O P Mittal
Panjab Univ Res Bull (N.S.) 17 (3/4), 335-351 REF
Dec 1966 513 EA72
Araneidae, Chromosomes, Sex determination.
Abstract included.

6676-68
A PRELIMINARY REPORT ON MUTATIONS IN THE HOUSE FLY.
R L Sullivan T Hiroyoshi
J Econ Entomol 53(2) 213-215, BIBL.
Apr 1960 421 J822
DDT , Drosophila, Insect mutation, Musca domestica.

6677-68
COLONIZATION AND PRODUCTION OF A DIELDRIN-RESISTANT STRAIN OF ANOPHELES QUADRIMACULATUS SAY.
H B Weinburgh R W Fay
J Econ Entomol 53(1) 101-103, BIBL., TABS.
Feb 1960 421 J822
Anopheles, Dieldrin, Insect genetics, Insecticide resistant insects.

Medical Entomology

6678-68
CONTROL OF THE TROPICAL RAT MITE.
W Ebeling
J Econ Entomol 53(3) 475-476, BIBL., PL.
Jun 1960 421 J822
Human engineering, Insecticides, Ornithonyssus.

6679-68
METHYLENEDIOXYPHENYL DERIVATIVES AS SYNERGISTS FOR CARBAMATE INSECTICIDES ON SUSCEPTIBLE, DDT-, AND PARATHION-RESISTANT HOUSE-FLIES.
M E Eldefrawi R Miskus V Sutcher
J Econ Entomol 53(2) 231-234, BIBL., TABS.
Apr 1960 421 J822
Carbaryl, DDT , Insecticide resistant insects, Musca domestica, Parathion.

6680-68
COMPARATIVE VALUE OF SOME SYNTHETIC COMPOUNDS AS SYNERGISTS WITH BARTHRIN IN HOUSE FLY SPRAYS.
W A Gersdorff P G Piquett S I Gertler B H Alexander
J Econ Entomol 53(2) 282-285, BIBL.
Apr 1960 421 J822
Barthrin, Chloropiperonyl chrysanthemumate, Musca domestica, Piperonyl butoxide.

6681-68
INFECTIVITY OF TRYPANOSOMA RHODESIENSE TO TSETSE FLIES FED THROUGH ANIMAL MEMBRANES.
A S Mshelbwala
Nature 215 (5099), 441
Jul 1967 472 N21
Disease transmission, Glossinia palpalis, Trypanosoma rhodesiense.

6682-68
SCREENING TESTS WITH SYNTHETIC COMPOUNDS AS SYNERGISTS FOR HOUSE FLY SPRAYS.
P G Piquett W A Gersdorff B H Alexander
J Econ Entomol 53(2) 299-301, BIBL.
Apr 1960 421 J822
Acetaldehyde, Butyl 2-methyl-3-(3,4-methylenedioxyphenyl) propyl acid, Musca domestica, Piperonyl butoxide, Spraying.

6683-68
BUSHBUSH, IERI AND LUKUNI VIRUSES, THREE UNRELATED NEW AGENTS ISOLATED FROM TRINIDADIAN FOREST MOSQUITOES.
L Spence C R Anderson T H Aitken W G Downs
Soc Exp Biol Med Proc 125 (1), 45-50 REF
May 1967 442.9 SO1
Bushbush virus, Culicidae, Forests, Ieri virus, Lukuni virus.

6684-68
POLYHEDROSES IN NEUROPTEROUS INSECTS.
K M Smith G J Hills C F Rivers
J Invertebrate Pathol 1(4) 431-434
Dec 1959 421 J826
Insect diseases, Neuroptera, Polyhedroses.

20 CROP PROTECTION

6685-68
REPORT AND ABSTRACTS OF THE 1963 ANNUAL MEETING OF THE POTOMAC DIVISION OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY.
Phytopathology 53(7) 745-748
Jul 1963 464.8 P56
Phytopathology, Plant diseases.

6686-68
HHC TRANSLOCATION FROM TREATED SOIL AND THE EFFECT ON GROWTH OF RED CLOVER.
C L Brass G W Ware
J Econ Entomol 53(1) 110-113, BIBL. 112-113, PL.
Feb 1960 421 J822
Benzine hexachloride, Plant growth inhibitors, Red clover, Seed germination, Soils.

6687-68
POTENTIAL USE OF DYLOX AND OTHER INSECTICIDES IN A CONTROL PROGRAM FOR FIELD CROP PESTS IN CALIFORNIA.
H T Reynolds V M Stern T R Fukuto G D Peterson Jr
J Econ Entomol 53(1) 72-78, BIBL. 77-78, TABS.
Feb 1960 421 J822
Alfalfa, Arthropoda, California, Cotton, Nematodes, Trichlorfon.

6688-68
DISTRIBUTION AND SORPTION OF LIQUID FUMIGANTS APPLIED TO WHEAT BY RECIRCULATION.
W K Whitney E E Kenaga
J Econ Entomol 53(2) 259-261, BIBL., PL.
Apr 1960 421 J822
Carbon disulfide, Carbon tetrachloride, Ethylene dibromide, Ethylene dichloride, Fumigants, Recirculation, Wheat.

Diseases

6689-68
REPORT AND ABSTRACTS OF THE 1963 ANNUAL MEETING OF THE PACIFIC DIVISION OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY.
Phytopathology 53(10) 1137-1145
Oct 1963 464.8 P56
Phytopathology, Plant diseases, Reference materials, Reports.

6690-68
ABSTRACTS OF PAPERS ACCEPTED FOR PRESENTATION AT THE FIFTY-FIFTH ANNUAL MEETING OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY, AMHERST, MASS., AUGUST 26, 27, 28, 29, 1963.
Phytopathology 53(8) 869-894
Aug 1963 464.8 P56
Abstracts, Phytopathology, Reports, Societies.

6691-68
SYMPOSIUM ON REQUIREMENTS AND INTERPRETATIONS OF BIOMETEOROLOGICAL OBSERVATIONS.
INVITATIONAL PAPERS PRESENTED AT THE FIFTY-FOURTH ANNUAL MEETING OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY.
CORVALLIS, OREGON, AUGUST 26-29, 1962.
Phytopathology 53(10) 1198-1216
Oct 1963 464.8 P56
Biometeorology, Epidemiology, Phytopathology, Symposia.

6692-68
SYMPOSIUM ON ROOT DISEASES OF FOREST TREES.
INVITATIONAL PAPERS PRESENTED AUGUST 27, 1962, AT THE FIFTY-FOURTH ANNUAL MEETING OF THE AMERICAN PHYTOPATHOLOGICAL SOCIETY AT CORVALLIS, OREGON.
Phytopathology 53(10) 1120-1136
Oct 1963 464.8 P56
Roots, Symposia, Trees.

6693-68
SHORT-STEM CONDITION IN LAMBERT CHERRIES.
M M Afanasiev
Phytopathology 53(10) 1137
Oct 1963 464.8 P56
Cherries, Stems.

6694-68
VARIETAL RESISTANCE TO CLOVER ROT IN WHITE CLOVER.
D T A Aldrich D A Doling
Nature 214 (5091), 946-947
27 May 1967 472 N21
Clover, Fungus diseases (plants), Plant disease resistance, Rot, Sclerotinia trifoliorum.

6695-68
SOME EFFECTS OF SUPPLYING BENZYLADEMINE TO LEAVES AND PLANTS INOCULATED WITH VIRUSES.
H S Aldwinckle I W Selman
Ann Appl Biol 60 (1), 49-58 REF
Aug 1967 442.8 AN72
Aztec tobacco, Benzyladenine, Kidney beans, Leaves, Virus diseases (plants).

6696-68
COMPARISON OF STRAINS OF PRUNUS NECROTIC RINGSPOT AND PRUNE DWARF VIRUSES WITH VIRUSES OF THE PFEFFINGER (RASP LEAF) TYPE.
W R Allen
Phytopathology 53(12) 1436-1442, BIBL., PL.
Dec 1963 464.8 P56
Necrotic ring spot (prunus), Prune dwarf (plums), Prunes, Rasp leaf (prunus).

6697-68
THE ROLE OF LEAF MICROFLORA ON EPIDEMIOLOGY OF THE NORTHERN LEAF BLIGHT OF CORN.
A Asare-Nyako
Diss Abstr Sect B 27 (12,PT.1), 4206B-4207B
Jun 1967 Z5055.U49D53
Corn, Epidemiology, Fungus diseases (plants), Helminthosporium turcicum, Leaves, Microorganisms, Northern leaf blight (corn).

6698-68
SOURCES OF RESISTANCE TO HALO BLIGHT IN PHASEOLUS VULGARIS.
J R Haggett W A Frazier
Plant Dis Rep 51(8)0 661-665 REF
Aug 1967 1.9 P69P
Bacterial diseases (plants), Beans, Crop varieties, Halo blight (beans), Plant disease resistance, Pseudomonas phaseolicola.
Field and greenhouse tests for resistance to halo blight (Pseudomonas phaseolicola) demonstrated wide differences between commercial cultivars and breeding lines developed for other purposes. the possible value of halo blight resistance in lines bred for resistance to bean yellow mosaic virus, Fusarium root rot, and/or rust is discussed.

6699-68
THE INFLUENCE OF VARIOUS NITROGEN COMPOUNDS ON SEXUAL REPRODUCTION IN HYPOMYCES SOLANI F. CUCURBITAE.
R Baker M Wenke S M Hix
Phytopathology 53(10) 1137
Oct 1963 464.8 P56
Fusarium, Hypomyces, Nitrogen, Reproduction.

6700-68
SYNTHESIS OF TOBACCO MOSAIC VIRUS FORMS IN NUCLEUS AND CYTOPLASM.
J G Bald
Phytopathology 53(10) 1137
Oct 1963 464.8 P56
Cell nucleus, Cytoplasm, Mosaic (tobacco), Tobacco.

6701-68
PREVALENCE OF ERWINIA AMYLOVORA IN APPLE BUDS AS DETECTED BY PHAGE TYPING.
C H Baldwin Jr R N Goodman
Phytopathology 53(11) 1299-1303, BIBL. 1302-1303, TABS., PL.
Nov 1963 464.8 P56
Apples, Bacteriophages, Erwinia.

6702-68
BEHAVIOR OF PHOMA HERBARUM VAR. MEDICAGINIS ON RESISTANT AND SUSCEPTIBLE SPECIES OF MEDICAGO.
E E Banttari R D Wilcoxson

20 6703-68

Phytopathology 53(10) 1233-1234, BIBL., PL.
Oct 1963 464.8 P56
Alfalfa, Phoma, Plant disease resistance,
Spring black stem (alfalfa).

6703-68
STUDIES ON LEVELS OF REDUCING SUGARS AND HYDROLYTIC ENZYMES IN RELATICN TO BOTRYTIS HEAD ROT ON SAFFLOWER.
I Barash J M Klijiewicz T Kosuge
Phytopathology 53(10) 1137-1138
Oct 1963 464.8 P56
Botrytis, Enzymes, Safflower, Sugar.

6704-68
INFLUENCE OF BOST AND NONHOST PIANTS UPON POPULATIONS OF THIELAVIOPSIS BASICOLA IN SOIL.
D F Bateman
Phytopathology 53(10) 1174-1177, BIBL., PL.
Oct 1963 464.8 P56
Beans, Population, Rhizosphere, Soils, Thielaviopsis.

6705-68
FOMES ANNOSUS.
R V Bega
Phytopathology 53(10) 1120-1123, BIBL. 1122-1123, PL.
Oct 1963 464.8 P56
Abies, Cupressus, Fomes, Picea.

6706-68
INHERITANCE OF STEM RUST RESISTANCE IN TWO WBEAT VARIETIES, MARQUIS AND KOTA.
L A Berg F J Gough N D Williams
Phytopathology 53(8) 904-908, BIBL. 907-908, TABS., PL.
Aug 1963 464.8 P56
Beredity, Plant disease resistance, Stem rust (wheat), Wheat.

6707-68
INFLUENCE OF PRATYLENCHUS PENETRANS ALONE AND IN COMBINATION WITH VERTICILLIUM ALBO-ATRUM ON GROWTB OF PEPPERMINT.
G B Bergeson
Phytopathology 53(10) 1164-1166, BIBL., TABS.
Oct 1963 464.8 P56
Growth factors, Mentha piperita, Pratylenchus, Verticillium.

6708-68
ENVIRCNMENTAL AND CTHER FACTORS INFLUENCING DEVELOPMENT OF SOUTBWESTERN COTTON RUST (PUCCINIA STAKMANII).
L M Blank C R Leathers
Phytopathology 53(8) 921-928, BIBL., PL.
Aug 1963 464.8 P56
Cotton, Environment, Puccinia, Southwestern cotton rust.

6709-68
GROWTB AND SURVIVAL OF THE PATBCGEN CAUSING RUSSET SCAB ON POTATCES.
K E Bohnenblust
Diss Abstr Sect B 27 (12,PT.1), 4207B
Jun 1967 Z5055.U49D53
Antibiotics, Plant diseases, Potatoes,
Russet scab (potatoes).

6710-68
SUSCEPTIBILTY OF GOSSYPIUM ARBOREUM AND GOSSYPIUM HIRSUTUM TO SEEDLING ANTBRACNOSE.
K Bollenbacher N D Fulton
Plant Dis Rep 51 (8)0 632-636 REF
Aug 1967 1.9 P69P
Anthracnose (cotton), Colletotrichum gossypii, Cotton, Fungus diseases (plants), Plant disease resistance.
University of Arkansas Department of Plant Pathology, Fayettville, cooperating.
Variety Nanking of Gossypium arboreum and 20 varieties of Gossypium hirsutum were tested in artificially-inoculated sand in the greenhouse for susceptibility to seedling anthracnose. the cotton varities were assayed with both a highly pathogenic and a moderatly pathogenic isolate of the causal fungus Colletotrichum gossypii. all varieties of G hirsutum were extremely susceptible to the highly virulent strain, but Nanking was very resistant to both isolates. most eastern United States varieties of G hirsutum were also very susceptible to the moderately pathogenic strain of the fungus, but a few of them were slightly tolerant. nearly all of the Acala varieties were moderately resistant and a few were very resistant to the moderately pathogenic isolate.

6711-68
VANCOMYCIN PREVENTS CROWN GALL.
A M Boyle R M Price
Phytopathology 53(11) 1272-1275, BIBL. 1274-1275
Nov 1963 464.8 P56
Crown galls, Roots, Rosa, Tomatoes, Vancomycin.

6712-68
INTERNALLY INFECTED SEED AS A SOURCE OF INOCULUM FOR THE PRIMARY CYCLE OF BACTERIAL BLIGHT OF COTTON.
L A Brinkerhoff R E Hunter
Phytopathology 53(12) 1397-1401, BIBL., TABS., PL.
Dec 1963 464.8 P56
Angular leafspot (cotton), Cotton, Seeds, Xanthomonas.

6713-68
COLD-INDUCED DORMANCY AND ITS REVERSAL IN UREDOSPORES OF PUCCINIA GRAMINIS TRITICI.
K R Bromfield
Phytopathology 53(7) 745
Jul 1963 464.8 P56
Cold, Plant dormancy, Puccinia, Uredospores.

6714-68
A FUNGUS LEAFSPOT OF ENGLISH HOLLY (ILEX AQUIFOLIUM).
W M Brown Jr
Phytopathology 53(10) 1138
Oct 1963 464.8 P56
Ilex, Leaf spot (ilex aquifolium).

6715-68
INFECTION OF SPRUCE SEEDLINGS BY CYLINDROCLADIUM SCOPARIUM.
W M Bugbee N A Anderson
Phytopathology 53(11) 1267-1271, BIBL., PL.
Nov 1963 464.8 P56
Calcium copper chloride, Cylindrocladium, Ferbam, Folpet, Picea, Seedlings.

6716-68
THE ROLE OF DROSOPHILA MELANOGASTER IN TH EPIPHYTOLOGY OF GEOTRICBUM, RHIZOPUS, AND CTHER FRUIT ROTS OF TOMATO.
E E Butler C E Bracker Jr
Phytopathology 53(9) 1016-1020, BIBL., TABS.
Sep 1963 464.8 P56
Drosophila melanogaster, Geotrichum, Rhizopus, Rot (tomatoes), Tomatoes.

6717-68
FIELD EXPERIMENTS ON SUGAR-BEET DOWNY MILDEW (PERONOSPORA FARINOSA).
W J Byford
Ann Appl Biol 60 (1), 97-107 REF
Aug 1967 442.8 AN72
Chemical control (plant diseases), Downy mildew (sugar beets), Peronospora farinosa, Sugar beets.

6718-68
RAPID-INDEX METHODS FOR EXOCORTIS OF CITRUS.
E G Calavan E F Frolich J B Carpenter C N Roistacher
Phytopathology 53(10) 1138
Oct 1963 464.8 P56
California, Citrus, Exocortis (citrus), Indexing.

6719-68
SEMEIOGRAPHY OF FUSARIUM WILT OF TOMATO.
H L Chambers M E Corden
Phytopathology 53(9) 1006-1010, BIBL., PL.
Sep 1963 464.8 P56
Fusarium, Tomatoes, Wilt (tomatoes).

6720-68
EXTERNAL SYMPTOMS GIEMSA-STAINABLE CELL INCLUSIONS ASSOCIATED WITH VIRUS INFECTION IN CACTI.
M Chessin R A Solberg P C Fischer
Phytopathology 53(8) 988-989, BIBL., PL.
Aug 1963 464.8 P56
Chenopodium, Giemsa, Inclusion bodies, Mammillaria.

6721-68
MOISTURE SENSITIVITY, MECHANICAL INJURY AND GIBBERELLIN TREATMENT OF BETA VULGARIS SEEDS.
R S Chetram W Heydecker
Nature 215 (5097), 210-211
08 Jul 1967 472 N21
Beets, Gibberellins, Humidity, Injuries, Seed treatment.

6722-68
PORIA WEIRII ROOT ROT.
T W Childs
Phytopathology 53(10) 1124-1127, PL.
Oct 1963 464.8 P56
Poria, Pseudotsuga, Root rot (pseudotsuga menziesii).

6723-68
PURIFICATION AND PROPERTIES OF BROMEGRASS MOSAIC VIRUS.
R B Chiu W B Sill Jr
Phytopathology 53(11) 1285-1291, BIBL. 1290-1291, PL.
Nov 1963 464.8 P56
Bromus, Mosaic (bromus), N-butanol, Ribonucleic acid.

6724-68
INFLUENCE OF BEAT-LABILE COMPONENTS OF THE RASPBERRY MOSAIC VIRUS COMPLEX ON GROWTB AND YIELD OF RED RASPBERRIES.
R H Converse
Phytopathology 53(11) 1251-1254, BIBL., TABS., PL.
Nov 1963 464.8 P56
Growth factors, Beat, Mosaic (raspberries), Raspberries.

6725-68
INBERITANCE OF RESISTANCE IN PEPPER TO BACTERIAL SPOT.
A A Cook R E Stall
Phytopathology 53(9) 1060-1062, BIBL., PL.
Sep 1963 464.8 P56
Bacterial spot (redpeppers), Beredity, Piper nigrum, Plant disease resistance, Xanthomonas.

6726-68
A PROBABILISTIC ANALYSIS OF FUNGUS CONTROL BY FOLIAR APPLICATION OF CHEMICALS.
J R Cooke
Diss Abstr Sect B 27 (12,PT.1), 4363B-4364B
Jun 1967 Z5055.U49D53
Chemical control (plant diseases), Fungus diseases (plants), Particle size determination, Pesticide application.

6727-68
A COMPARISON OF FUSARIUM WILT INDICES OF COTTON VABIETIES WITB ROOT-KNOT AND STING NEMATODES AS PREDISPOSING AGENTS.
W E Cooper B B Brodie
Phytopathology 53(9) 1077-1080, BIBL. 1079-1080
Sep 1963 464.8 P56
Belonolaimus, Cotton, Fusarium, Meloidogyne, Nematodes, Wilt (cotton).

6728-68
INVERSION PBENOMENON INDUCED BY NABAM DERIVATIVES.
M E Corden R C Carlstrom W M Brown B K Koolheki
Phytopathology 53(10) 1138
Oct 1963 464.8 P56
Fungus growth inhibitors, Nabam, Thielaviopsis, Thiram, Verticillium.

6729-68
TBE FLAT APPLE DISEASE.
D L Coyier J A Milbrath
Phytopathology 53(10) 1138
Oct 1963 464.8 P56
Apples, Flat apple (apples), Virus diseases (plants).

6730-68
CONTROL OF PEACB BACTERIAL SPOT WITB XANTBOMONAS PRUNI BACTERIOPBAGE.
Phytopathology 53(7) 746-747
Jul 1963 464.8 P56
Bacterial spot (peaches),
Biological control (plant diseases), Peaches.

6731-68
VARIABILITY IN PATBOGENICITY IN TBE BACTERIAL BLIGBT PATBOGEN OF SOYBEANS.
J E Cross
Diss Abstr Sect B 27 (12,PT.1), 4208B
Jun 1967 Z5055.U49D53
Bacterial blight (soybeans), Bacterial diseases (plants), Pseudomonas glycinia, Soybeans.

6732-68
EFFECTS OF MELOIDOGYNE SPP. AND TYLENCHORBYNCBUS CLAYTONI ON PEA WILT INCITED BY FUSARIUM OXYSPORIUM F. PISI BACE 1.
R A Davis W R Jenkins
Phytopathology 53(7) 745
Jul 1963 464.8 P56
Fusarium, Meloidogyne, Plant disease resistance, Soil series, Tylenchorhynchus claytoni, Wilt (peas).

6733-68
EFFECT OF UREDIOSPORE CONCENTRATION ON DETERMINATION OF RACES OF RUST FUNGI.
A D Davison E K Vaughan
Phytopathology 53(10) 1138
Oct 1963 464.8 P56
Taxonomy, Uredinales, Urediospore.

6734-68
PSEUDOMONAS CARYOPBYLLI IN CARNATION. I. RELATION OF SOIL TEMPERATURE TO SYMPTOM EXPRESSION.
R S Dickey P E Nelson
Phytopathology 53(10) 1237-1238, BIBL., PL.
Oct 1963 464.8 P56
Dianthus caryophyllus, Pseudomonas, Soil temperature.

6735-68
TRICBLOROBENZENE AS A SOIL TOXICANT AGAINST FOUR WOOD-DECAYING SCIL FUNGI.
J D Diller E J Koch
Phytopathology 53(7) 745
Jul 1963 464.8 P56
Fungicides, Soil fungi, Trichlorobenzene, Wood destroying fungi.

6736-68
TRANSMISSION OF PSEUDOMONAS SYRINGAE IN PEACB TREES BY BUD PROPAGATION.
W M Dowler D B Petersen
Plant Dis Rep 51 (8)0 666-668
Aug 1967 1.9 P69P
Bacterial canker (peaches), Bacterial diseases (plants), Dibromo-3-chloropropane, 1,2-, Peaches, Plant budding, Plant disease control, Plant disease transmission, Pseudomonas syringae.
South Carolina Agricultural Experiment Station, Clemson, cooperating.
Scion buds obtained from an orchard with a high incidence of bacterial canker were budded onto peach seedlings from cannery stock. about 1200 of these June-budded trees were used to establish two orchards. sixty apparently healthy trees were planted in each orchard for comparison. by the end of the first growing season, 27 percent of the trees from the canker-infested orchard had died as compared with 17 percent of the others. bacteria, morphologically similar to Pseudomonas syringae, were isolated readily from the first group of trees but rarely from the ;healthy; trees. soil injections of 1,2-dibromo-3-chloropropane during the second growing season resulted in a slight reduction in tree losses the following year.

6737-68
BOST-PARASITE RELATIONS OF STEMPBYLIUM LEAFSPOT AND STEM CANKER OF BIRDSFOOT TBEFOIL (LOTUS CORNICULATUS).
C R Drake
Phytopathology 53(9) 1094-1099, BIBL., PL.
Sep 1963 464.8 P56
Birdsfoot trefoil, Leaf spot (birds foot trefoil), Stem canker (birdsfoot trefoil), Stemphylium.

6738-68
BEET RING MOTTLE DISEASE.
J E Duffus A S Costa
Phytopathology 53(12) 1422-1425, BIBL.
Dec 1963 464.8 P56
Aphididae, Beets, Ring mottle (beets), Spinach, Sugar beets.

6739-68
A VIRUS-LIKE PARTICLE IN AVON AND FUNDY POTATOES.
M M Dwurazna M Weintraub
Phytopathology 53(7) 839-842, PL.
Jul 1963 464.8 P56
Plant disease transmission, Potatoes, Viruses.

6740-68
BACTEBIAL SPOT OF IVY CAUSED BY XANTBOMONAS BEDEBAE (ARNAUD, 1920, DOWSON 1939, IN NEW ZEALAND.
D W Dye
New Zeal J Sci 10 (2), 481-485
Jun 1967 514 N482
Bacterial diseases (plants), Bacterial spot (ivy), Hanthomonas hederae, New Zealand.

6741-68
CONTROL OF PENICILLIUM DECAY OF ORANGES WITB CEBTAIN VOLATILE ALIPHATIC AMINES.
J W Eckert M J Kolbezen
Phytopathology 53(9) 1053-1059, BIBL. 1058-1059, TABL.
Sep 1963 464.8 P56
Amines, Ammonia, Ethylamine, Isobutylamine, Isopropylamine,

20 6742-68

N-butylamine, N-propylamine, Oranges, Organic compounds, Penicillium, Sec-butylamine, Tert-butylamine.

6742-68
SYM-DIBROMOTETRACHLOROETHANE - A NEW FUNGISTAT FOR CONTROL OF CITRUS FRUIT DECAY.
J W Eckert M J Kolbezen
Phytopathology 53(7) 755-761, BIBL. 760-761, TABS., PL.
Jul 1963 464.8 P56
Citrus, Dibromotetrachloroethane, symmetrical, DBTCE , Fruit, Fungicides, Penicillium.

6743-68
EFFECT OF ORGANIC PHOSPHOROUS PESTICIDES ON CERTAIN PHYTOPATHOGENIC BACTERIA.
A F El-Helaly M K Abo-el-Dahab F M Zeitoun
Phytopathology 53(7) 762-764
Jul 1963 464.8 P56
Bacterial diseases (plants), Bactericides, Chemical control (plant diseases), Phosphorus.

6744-68
EFFECTS OF BARLEY YELLOW DWARF VIRUS ON YIELD OF OATS AS INFLUENCED BY VARIETY, VIRUS STRAIN, AND DEVELOPMENTAL STAGE OF PLANTS AT INOCULATION.
R M Endo C M Brown
Phytopathology 53(8) 965-968, BIBL.
Aug 1963 464.8 P56
Barley, Oats, Yellow dwarf (barley).

6745-68
INFLUENCE OF TEMPERATURE ON RATE OF GROWTH OF FIVE FUNGUS PATHOGENS OF TURFGRASS AND ON RATE OF DISEASE SPREAD.
R M Endo
Phytopathology 53(7) 857-861, BIBL. 860-861, TABS.
Jul 1963 464.8 P56
Corticium, Fungus diseases (plants), Fusarium, Grasses, Plant disease resistance, Plant disease transmission, Plant physiology, Plant temperature, Pythium, Rhizoctonia, Sclerotinia, Turf.

6746-68
ANTIFUNGAL PHENOLIC ACIDS IN APPLE FRUITS AFTER INFECTION WITH SCLEROTINIA FRUCTIGENA.
C H Fawcett D M Spencer
Ann Appl Biol 60 (1), 87-96 REF
Aug 1967 442.8 AN72
Apples, Fungicides, Fungus diseases (plants), Phenols, Sclerotinia fructigena.

6747-68
SUPPRESSION OF CORN HEAD SMUT BY IN-FURROW APPLICATIONS OF PENTACHLORONITROBENZENE.
H S Fenwick W R Simpson
Plant Dis Rep 51(8)0626-628
Aug 1967 1.9 P69P
Chemical control (plant diseases), Corn, Fungicides, Head smut (corn), Pentachloronitrobenzene, Pesticide application, Sphacelotheca reiliana.
Furrow treatment with pentachloronitrobenzene (PCNB) indicates some hope for a control over head smut of corn. at 20 lb/acre of PCNB, complete control of head smut was obtained in the greenhouse and application rates as low as 5 lb/acre gave some control in the field. the economics of control and minimal rate of the application will be investigated further in 1967.

6748-68
POSSIBLE DETRIMENTAL EFFECT OF PYTHIUM ARTOTROGUS ON THE CULTIVATED MUSHROOM.
C L Fergus J W Sinden L C Schisler E M Sigel
Phytopathology 53(11) 1360-1362, BIBL., PL.
Nov 1963 464.8 P56
Mushrooms, Phytopathology, Pythium.

6749-68
THE FUNGOUS FLORA OF NONSUBERIZED ROOTS OF POORLY GROWING CHERRY TREES.
P Fliegel K G Parker W F Mai
Phytopathology 53(11) 1368-1369, BIBL.
Nov 1963 464.8 P56
Cherries, Flora, Fungi, Pratylenchus.

6750-68
A SIMPLE METHOD OF MEASURING RATE OF PLANT VIRUS MOVEMENT FROM INOCULATED TOBACCO LEAVES TO STEM TIPS.
R E Ford D F Bateman
Phytopathology 53(10) 1139
Oct 1963 464.8 P56
Alfalfa, Leaves, Measurement, Potatoes, Tobacco.

6751-68
PHYTOPHTHORA ROOT ROT OF ALFALFA IN MINNESOTA.
F I Frosheiser
Plant Dis Rep 51 (8)0 679-681
Aug 1967 1.9 P69P
Alfalfa, Fungus diseases (plants), Phytophthora megasperma, Root rot (alfalfa).
University of Minnesota, Department of Plant Pathology and Physiology, St. Paul, cooperating.
Stand depletion due to root rot was observed in several alfalfa fields in Minnesota in 1965. Phytophthora megasperma was isolated from roots of diseased plants. nine of eleven isolates tested were pathogenic on Vernal alfalfa plants in artificially-infested soil. infection was more severe in plants inoculated under 6 weeks old than 12 weeks old. only one field with current season infection was observed in 1966. phytophthora root rot may become a problem of alfalfa in Minnesota in wet areas, or during and following periods of excessive precipitation.

6752-68
GENETICS AND CYTOLOGY OF PHYTOPHTHORA.
J Galindo G A Zentmyer
Nature 214 (5095), 1356
24 Jun 1967 472 N21
Cytology, Fungus diseases (plants), Genetics, Phytophthora drechsleri.

6753-68
APPROACH GRAFT TRANSMISSION OF TULARE APPLE MOSAIC VIRUS BETWEEN APPLE AND GOMPHRENA GLOBOSA.
S M Garnsey
Phytopathology 53(10) 1139
Oct 1963 464.8 P56
Apples, Gomphrena, Plant disease transmission, Plant grafting, Tulare mosaic (apples).

6754-68
EVIDENCE FOR TWO DIFFERENT PATHOGENS OF PEANUT POD ROT.
K H Garren
Phytopathology 53(7) 746
Jul 1963 464.8 P56
Calcium sulfate, DBSS , Fungus diseases (plants), Para-dimethylaminobenzenediazo sodium sulfonate, Peanuts, Pentachloronitrobenzene, Pod rot (peanuts), Pythium, Rhizoctonia.

6755-68
VARIATION IN SUSCEPTIBITY TO SCLEROTIUM ROLFSII AMONG PEANUT VARIETIES.
K H Garren
Phytopathology 53(7) 746
Jul 1963 464.8 P56
Crop varieties, Peanuts, Plant disease resistance, Sclerotium, Stem rot (peanuts).

6756-68
RESISTANCE TO POWDERY MILDEW IN GRAPEVINES RELATED TO OSMOTIC VALUE AND ASSOCIATED FACTORS.
A C Goheen W C Schnathorst
Phytopathology 53(10) 1139
Oct 1963 464.8 P56
Grapes, Osmosis, Plant disease resistance, Powdery mildew (grapes).

6757-68
AN APPARENT STRAIN OF TOBACCO RATTLE VIRUS ASSOCIATED WITH A YELLOW SPOTTING OF LETTUCE.
A H Gold R Grogan R Bardin
Phytopathology 53(10) 1139
Oct 1963 464.8 P56
Lettuce, Rattle disease (tobacco), Tobacco, Yellow spotting (lettuce).

6758-68
THE RESPONSE TO TEMPERATURE OF CABBAGE VIRUS A INFECTION IN NICOTIANA GLUTINOSA.
L C Gonzalez G S Pound
Phytopathology 53(9) 1041-1045, BIBL., TABS., PL.
Sep 1963 464.8 P56
Cabbage, Nicotiniana, Temperature, Virus A (cabbage).

6759-68
FUNGI ATTACKING SEEDS IN DRY SEED-BEDS.
D M Griffin
Linn Soc New S Wales Proc 91 (1), 84-89 REF
1966 514 SY2
Aspergillus, Fungus diseases (plants), Penicillium, Seeds, Soils, Wheat.

6760-68
SEED TRANSMISSION OF WHITE CLOVER MOSAIC AND CLOVER YELLOW MOSAIC VIRUSES IN RED CLOVER.
R O Hampton
Phytopathology 53(10) 1139
Oct 1963 464.8 P56
Clover, Mosaic (white clover), Seed-borne plant diseases, White clover, Yellow mosaic (clover).

6761-68
RATE AND PATTERN OF PRUNE DWARF VIRUS MOVEMENT WITHIN INOCULATED CHERRY TREES.
R O Hampton
Phytopathology 53(9) 998-1002, BIBL., TABS.
Sep 1963 464.8 P56
Cherries, Dwarf disease (prunus), Prunes.

6762-68
SOME OBSERVATIONS OF PEANUT LEAF RUST AND CERCOSPORA LEAF SPOTS IN TEXAS.
A L Harrison
Plant Dis Rep 51 (8)0 687-689
Aug 1967 1.9 F69P
Cercospora personata, Fungicides, Fungus diseases (plants), Leaf rust (peanuts), Leaf spot (peanuts), Peanuts, Puccinia arachidis.
Puccinia leaf rust and Cercospora leaf spot diseases caused serious losses in peanuts in south Texas in many fields harvested from September to November in 1965 and 1966. early harvested peanuts were not seriously affected by leaf rust. several fungicides of the ones tested, including 325-mesh dusting sulfur, reduced the incidence of both leaf rust and leaf spots. sprays were more effective than dusts in the 1966 tests.

6763-68
A VISIT TO M. W. BEIJERINCK AT HIS HOME LABORATORY IN DECEMBER, 1925.
L S Heimbeck
Phytopathology 53(7) 862
Jul 1963 464.8 P56
Antirrhinum, Bacteria, Plant diseases.

6764-68
FIRST AND SECOND YEAR EFFECTS ON CYTOSPORA CANKER DISEASE OF ITALIAN PRUNE TREES SPRAYED WITH FOUR CONCENTRATIONS OF CYCLOHEXIMIDE TRIOSEMICARBAZONE.
A W Helton W J Kochan
Plant Dis Rep 51 (8)0 655-658
Aug 1967 1.9 P69P
Canker (Prunus domestica), Cyclcheximide thiosemicarbazone, Cytospora cincta, Dosage, Fungus diseases (plants), Prunes, Prunus domestica, Spraying.
Three groups of Italian prune (Prunus domestica) trees in a commercial-orchard environment were spray-treated with 50, 200, 800, or 3200 ppm of cycloheximide thiosemichrbazone (CTS). in one case, 21-year-old trees with natural infections were treated only the first year. in another case, healthy 18-year-old trees were treated both years, with artifical infections being initiated before and after treatment in the spring of both years. in a third case, healthy 4-year-old trees were treated only the first year, with artifical infections being initiated in the spring of both years. the results indicate that0 1) old infections can be suppressed satisfactorily only with relatively high concentrations (3200 ppm or more), 2) the effectiveness of lower concentrations in old trees can be improved by treating each year, 3) low concentrations are highly effective in young or old trees when applied prior to infection, and 4) these effects can be measured during the winter period following treatment, and during the second growing season, even when treatments are applied only during the first year.

6765-68
ABSORPTION, TOXICITY, AND BIO-ASSAY OF HIGH-POTENCY FUNGICIDES IN PRUNUS DOMESTICA.
A W Helton A E Harvey
Phytopathology 53(8) 895-898, BIBL.
Aug 1963 464.8 P56
Cycloheximide, Mycostatin, Phytoactin, Phytostreptin, Prunes, Quinolinol benzoate, 8-, Quinolinol citrate, 8-, Quinolinol sulfate, 8-.

6766-68
SUMMATION.
T R Hepting
Phytopathology 53(10) 1135-1136
Oct 1963 464.8 P56
Roots, Symposia, Tree diseases.

6767-68
MONOGENIC CHLOROTIC LESION RESISTANCE TO HELMINTHOSPORIUM TURCICUM IN CORN SEEDLINGS.
H M Rilu A L Rooker
Phytopathology 53(8) 909-912, BIBL., TABS., PL.
Aug 1963 464.8 P56
Chlorosis (corn), Corn, Helminthosporium, Plant disease resistance.

6768-68
PATHOGENICITY, VITAMIN NUTRITION, AND CULTURAL CHARACTERISTICS OF ISOLATES OF PHYTOPHTHORA PARASITICA FROM CARNATION AND OTHER HOSTS IN HAWAII.
R R Hine M Aragaki
Phytopathology 53(10) 1194-1197, BIBL., TABS.
Oct 1963 464.8 P56
Dianthus caryophyllus, Hawaii, Nutrition, Pathogenicity, Phytophthora, Vitamins.

6769-68
INFLUENCE OF SOIL TEMPERATURE ON A CROWN ROT DISEASE OF PARSLEY CAUSED BY PHYTOPHTHORA PARASITICA.
R R Hine M Aragaki
Phytopathology 53(9) 1113-1114, BIBL.
Sep 1963 464.8 P56
Crown rot (parsley), Parsley, Phytopathology, Phytophthora, Soil temperature.

6770-68
RECOVERY OF ASTER YELLOWS FROM EXCISED ORGANS OF INSECT VECTORS.
R Hirumi K Maramorosch
Phytopathology 53(7) 746
Jul 1963 464.8 P56
Aster yellows (callistephus chinensis), Gastrointestinal system, Insect vectors, Macrosteles fascifrons, Salivary glands (insects), Viscera.

6771-68
BLACK ROOT ROT OF PINE.
C S Hodges Jr
Phytopathology 53(10) 1132-1134, BIBL.
Oct 1963 464.8 P56
Black root rot (pinus), Ethylene dibromide, Pinus.

6772-68
A NEW CROWN ROT OF STRAWBERRY PLANTS CAUSED BY COLLETOTRICHUM FRAGARIAE.
N L Horn R G Carver
Phytopathology 53(7) 768-770, PL.
Jul 1963 464.8 P56
Colletotrichum, Crown rot (strawberries), Methyl bromide, Strawberries.

6773-68
FIELD DISEASE CYCLE OF PEPPERMINT RUST.
C E Horner
Phytopathology 53(9) 1063-1067, BIBL., PL.
Sep 1963 464.8 P56
Hibernation, Mentha piperita, Puccinia, Rust (mentha piperita), Teliospores.

6774-68
RELATION OF THE IRIS BORER TO BACTERIAL SOFT ROT OF IRIS.
C M Howard J G Leach
Phytopathology 53(10) 1190-1193, BIBL., PL.
Oct 1963 464.8 P56
Bacterial soft rot (iris), Erwinia, Iris, Macronoctua.

6775-68
FUSARIUM WILT (RACE2) OF TOMATOO EFFECT OF LIME AND MICRONUTRIENT SOIL AMENDMENTS ON DISEASE DEVELOPMENT.
P J Jones S S Woltz
Plant Dis Rep 51 (8)0 645-648 REF
Aug 1967 1.9 P69P
Calcium hydroxide, Fungus diseases (plants), Manganese sulfate, Micronutrients, Plant nutritional deficiencies, Soil amendments, Tomatoes, Wilt (tomatoes), Zinc sulfate.
Field soil (Leon fine sand) naturally infested with Fusarium oxysporum f lycopersici race 2 was amended with hydrated lime, manganese sulfate, and zinc sulfate in two greenhouse pot tests. liming to a pH 8.0 0-8.3 greatly decreased the incidence and severity of Fusarium wilt of tomato (variety Manapal). the pathogen was isolated, however, from the stems of many of the plants grown in lime-amended

6776-68
DETECTION OF THE TOBACCO VEINAL NECROSIS STRAIN OF POTATO VIRUS Y IN SOLANUM CARDENASII AND S. ANDIGENUM INTRODUCED INTO THE UNITED STATES.
R P Kahn R L Monroe
Phytopathology 53(11) 1356-1359, BIBL. 1358-1359, PL.
Nov 1963 464.8 P56
Necrosis, Solanum, Tobacco, United States.

6777-68
EFFECT OF BIOTIN ON GROWTH AND SPORULATION OF VERTICILLIUM ALBO-ATRUM.
W J Kaiser
Phytopathology 53(10) 1139-1140
Oct 1963 464.8 P56
Biotin, Growth factors, Sporulation, Verticillium.

6778-68
EFFECT OF THE SOIL CARBON NITROGEN RATIO ON SOIL FUNGI.
D D Kaufman L E Williams
Phytopathology 53(8) 956-960, BIBL., TABS.
Aug 1963 464.8 P56
Carbon, Chaetomium, Humicola, Masoniella, Nitrogen, Soil fungi, Soils, Stysanus, Wheat straw.

6779-68
CONTROL OF BOTRYTIS NECK ROT OF ONIONS BY FUNGICIDAL DUSTS AND DESICCANT CHEMICALS.
J Kaufman J W Lorbeer
Plant Dis Rep 51 (8)0 696-699
Aug 1967 1.9 P69P
Botran, Botrytis allii, Calcium chloride, Captan, Chemical control (plant diseases), Defoliants, Dichloro-4-nitroaniline, 2,6-, Dusting, Fungicides, Fungus diseases (plants), Neck rot (onions), Onions, Thiram.
Supported in part by Orange County Vegetable Improvement Cooperative Association, Middleton, and Campbell Soup Company, Camden.
Certain fungicidal dusts and desiccant chemicals applied on the neck wounds of freshly harvested New York-grown Downing Yellow Globe onion bulbs, artificially inoculated with Botrytis allii, significantly reduced Botrytis neck rot after 4 to 5 months common storage. 2,6-Dichloro-4-nitroaniline and calcium chloride were most effective materials in reducing total decay of onions during the 1964-65 season. captan and two other fungicides greatly reduced Botrytis neck rot and total decay during 1965-66. two experimental fungicides reduced Botrytis neck rot to very low levels during 1966-67.

6780-68
STUDIES ON THE NATURE OF BARLEY RESISTANCE TO HELMINTHOSPORIUM TERES.
B L Keeling
Diss Abstr Sect B 27 (12,PT.1), 4208B-4209B
Jun 1967 Z5055.U49D53
Barley, Helminthosporium teres, Net blotch (barley), Plant disease resistance, Plant growth inhibitors.

6781-68
INFECTION OF SEEDLING COTTON HYPOCOTYL BY AN ISOLATE RHIZOCTONIA SOLANI.
B B Khadga J B Sinclair B B Exner
Phytopathology 53(11) 1331-1336, BIBL. 1335-1336, PL.
Nov 1963 464.8 P56
Cotton, Hypocotyls, Rhizoctonia, Seedlings.

6782-68
INDUCED SUSCEPTIBILITY IN SOYBEAN PLANTS GENETICALLY RESISTANT TO PHYTOPHTHORA SOJAE.
W J Klarman J W Gerdemann
Phytopathology 53(7) 863-864, PL.
Jul 1963 464.8 P56
Phytophthora, Plant disease resistance, Soybeans.

6783-68
RESISTANCE OF SOYBEANS TO THREE PHYTOPHTHORA SPECIES DUE TO THE PRODUCTION OF A PHYTOALEXIN.
W L Klarman J W Gerdemann
Phytopathology 53(11) 1317-1320, BIBL., TABS.
Nov 1963 464.8 P56
Phytoalexin, Phytophthora, Plant disease resistance, Soybeans.

6784-68
NATURE OF RESISTANCE OF SOYBEANS TO THREE PHYTOPHTHORA SPECIES.
W L Klarman J W Gerdemann
Phytopathology 53(7) 747
Jul 1963 464.8 P56
Phytophthora, Plant disease resistance, Soybeans.

6785-68
WILT-INCITANT FUSARIUM OXYSPORUM F. CARTHAMI PRESENT IN SEED FROM INFECTED SAFFLOWER.
J M Klisiewicz
Phytopathology 53(9) 1046-1049, BIBL., PL.
Sep 1963 464.8 P56
Fusarium, Safflower, Seed-borne plant diseases, Seeds, Wilt (safflower).

6786-68
CANCROID SPOT OF CITRUS.
L C Knorr
Phytopathology 53(12) 1415-1418, BIBL., PL.
Dec 1963 464.8 P56
Cancroid spot (citrus), Citrus, Fungus diseases (plants).

6787-68
MECHANISM OF SOIL FUNGISTASIS.
W H Ko
Diss Abstr Sect B 27 (12,PT.1), 4209B
Jun 1967 Z5055.U49D53
Fungicides, Plant nutrition, Soil fungi, Soil microorganisms.

6788-68
CONTROL OF DOWNY MILDEW OF OPIUM POPPY BY ROOT APPLICATION OF FUNGICIDES.
K L Kothari A C Verma
Plant Dis Rep 51 (8)0 686-687
Aug 1967 1.9 P69P
Downy mildew (Papaver), Fungicides, Fungus diseases (plants), Papaver, Peronospora arborescens, Pesticide application, Plant disease control, Roots, Thiocarbamates.

6789-68
INFECTING SEVEN-DAY-OLD ALFALFA SEEDLINGS WITH WILT BACTERIA THROUGH WOUNDED COTYLEDONS.
K W Kreitlow
Phytopathology 53(7) 800-803, PL.
Jul 1963 464.8 P56
Alfalfa, Bacterial wilt (alfalfa), Corynebacterium, Plant injuries, Seedlings.

6790-68
A PHYSIOGENIC LEAF AND STEM SPOT OF SOME FORAGE LEGUMES.
K W Kreitlow R A Kilpatrick
Plant Dis Rep 51(8)0619-622
Aug 1967 1.9 P69P
Alfalfa, Birdsfoot trefoil, Leaf spot (alfalfa), Leaf spot (birdsfoot trefoil), Leaf spot (red clover), Leaf spot (vetch), Red clover, Vetch.
New Hampshire Agricultural Experiment Station, Durham, cooperating.
Some lines of alfalfa and red clover are affected by a physiogenic leaf and stem spot that resembles symptoms incited by Leptosphaerulina trifolii. similar symptoms were observed on birdsfoot trefoil and possibly earlier on common vetch. the spotting is transient and fails to develop when plants are grown at temperatures above 28 degrees centigrade or when light intensity is low.

6791-68
ON THE FUNGISTATIC AND FUNGICIDAL PROPERTIES OF AN ANTIBIOTIC PRODUCED BY PENICILLIUM RUBRUM.
M M Krstic
Plant Dis Rep 51 (8)0 669-671
Aug 1967 1.9 P69P
Antibiotics, Fungicides, Fungus diseases (plants), Penicillium rubrum.

6792-68
AN EVALUATION OF SOLANUM NIGRUM AND PHYSALIS MINIMA AS SUSCEPTS OF XANTHOMONAS VESICATORIA.
C A Laub R E Stall
Plant Dis Rep 51 (8)0 659-661
Aug 1967 1.9 P69P
Bacterial diseases (plants), Bacterial spot (Physalis minima), Bacterial spot (Solanum nigrum), Physalis minima, Plant disease resistance, Solanum nigrum, Weeds, Xantaomonas vesicatoria.
Plants of nightshade and ground cherry were resistant to Xanthomonas vesicatoria. resistance in both species was similar to the hypersensitive resistance of a pepper line descended from PI 163192. X vesicatoria was isolated from the resistant plants 35 days after inoculation of low levels of bacteria even though no macroscopic symptoms were noted.

this is evidence that the bacterial spot microorganism can survive as a resident in the resistant plants and as such might possibly survive the intercrop period in Florida.

6793-68
A RINGSPOT VIRUS FROM DAHLIA.
R R Lawson J A Milbrath
Phytopathology 53(10) 1140
Oct 1963 464.8 P56
Dahlia, Ring spot (dahlia).

6794-68
THE RESISTANCE OF ZEA MAYS TO PUCCINIA GRAMINIS.
K T Leath
Diss Abstr Sect B 27 (12,PT.1), 4209B-4210B
Jun 1967 Z5055.U49D53
Corn, Grasses, Rust indexing (plants),
Plant disease resistance, Puccinia graminis,
Puccinia sorghi.

6795-68
FORMATION OF HYDROGEN CYANIDE BY THE MYCELIAL STAGE OF A FAIRY RING FUNGUS.
J B Lebeau E J Hawn
Phytopathology 53(12) 1395-1396, BIBL.
Dec 1963 464.8 P56
Golf courses, Hydrocyanic acid, Lawns, Marasmius oreades,
Mycelium, Parks, Pastures.

6796-68
MULTIPLICATION OF XANTHOMONAS VESICATORIA ON TOMATO SEEDLINGS.
C Leben
Phytopathology 53(7) 778-781
Jul 1963 464.8 P56
Bacteriology, Cultural control (plant diseases), Mucor,
Reproduction, Seedlings, Spotted wilt (tomatoes), Tomatoes,
Xanthomonas.

6797-68
DISINFECTION OF TOMATO SEED INFESTED WITH XANTHOMONAS VESICATORIA.
G Libman R E Webb
Phytopathology 53(7) 747
Jul 1963 464.8 P56
Antibiotics, Antiseptics, Chemical control (plant diseases),
Fungicides, Hexachlorophene, Seed treatment, Seeds,
Tomatoes.

6798-68
RELATIONSHIPS OF VIRUSES ASSOCIATED WITH RINGSPOT DISEASES OF BLUEBERRY.
R M Lister L C Raniere E R Varney
Phytopathology 53(9) 1031-1035, BIBL., PL.
Sep 1963 464.8 P56
Blueberries, Necrotic ring spot (blueberries),
Ring spot (tobacco), Xiphinema.

6799-68
FUNGITOXICITY OF STERILIZED SOIL INOCULATED WITH SOIL MICROFLORA.
J L Lockwood B T Lingappa
Phytopathology 53(8) 917-920, BIBL.
Aug 1963 464.8 P56
Glomerella, Soil fungi, Soil sterilization.

6800-68
INSTABILITY OF SYMPTOMS OF POTATO LEAF ROLL VIRUS.
H R MacCarthy
Phytopathology 53(10) 1161-1163, BIBL., TABS.
Oct 1963 464.8 P56
Insect vectors, Leaf roll (potatoes), Myzus, Potatoes.

6801-68
CHEMOTHERAPY OF THE APPLE SCAB DISEASE WITH BUTYRIC ACID DERIVATIVES.
D H MacIennan J Kuc E B Williams
Phytopathology 53(11) 1261-1266, BIBL., TABS., PL.
Nov 1963 464.8 P56
Apples, Butyric acid, Drug therapy, Scab (apples), Venturia.

6802-68
PHYSICLOGICAL FACTORS INVOLVED IN TUMOR PRODUCTION BY THE OLEANDER KNOT PATHOGEN, PSEUDOMONAS SAVASTANOI.
A R Hagie E E Wilson
Phytopathology 53(10) 1140
Oct 1963 464.8 P56
Crown galls, Nerium, Pseudomonas.

6803-68
VECTORS OF ALFALFA AND BEAN YELLOW MOSAIC VIRUSES IN LADINO WHITE CLOVER.
G R Manglitz K W Kreitlow
J Econ Entomol 53(1) 113-115, BIBL., TABS.
Feb 1960 421 J822
Aceratagallia, Alfalfa, Anuraphis, Derocerus, Empoasca,
Ladino clover, Macrosiphum, Mosaic (bean yellow), Myzus,
Rhopalosiphum, Tetranychus, Therioaphis.

6804-68
FACTORS AFFECTING GROWTH, SPORULATION, PATHOGENICITY, AND DISSEMINATION OF LEPTOSPHAERULINA BRIOSIANA.
E S Martinez E W Ranson
Phytopathology 53(8) 938-945, BIBL., TABS., PL.
Aug 1963 464.8 P56
Alfalfa, Growth factors, Leaf spot (alfalfa),
Leptosphaerulina, Sporulation.

6805-68
EFFECT OF SMDC ON GERMINATION, PLANT GROWTH, AND FUSARIUM WILT INCIDENCE OF CUMIN (CUMINUM CYMINUM).
B L Mathur R L Mathur
Plant Dis Rep 51 (8)0 629-631
Aug 1967 1.9 P69P
Cuminum cyminum, Fungus diseases (plants),
Fusarium oxysporum, Plant physiology, Seed germination,
SMDC , Thiocarbamates, Wilt (Cuminum cyminum).
Addition of SMDC and its 50 percent solution to soil 20 days before sowing resulted in increased seedling emergence, better plant growth, and reduction in wilt Fusarium oxysporum cumini, incidence in cumin. in SMDC-TREATED soil there were relatively few fungal species and the population of Fusarium oxysporum, as well as of total fungi, was greatly reduced.

6806-68
VARIETAL RESPONSE IN GROUNDNUT TO SCLEROTIUM BATATICOLA.
S B Mathur A Sigh L M Joshi
Plant Dis Rep 51 (8)0 649-651
Aug 1967 1.9 P69P
Crop varieties, Fungus diseases (plants), Peanuts,
Sclerotium bataticola.
Sclerotium bataticola caused severe damage in two varieties of groundnut out of four tested under field conditions. seventy-two percent mortality was observed in variety TMV 2 and 65 percent in Spanish Improved Punjab 1 TMV 3 varieties suffered only 13 and 4 percent losses, respectively. the latter two varieties are late-maturing and spreading types while the former ones mature early and possess a bunchy habit. the residual yields of Punjab 1 and soil although these plants did not develop vascular browning TMV 3 per hectare were very much higher than yields for the symptoms. the Mn and Zn soil amendment results were variable and inconclusive.
other two susceptible varieties. punjab 1 and TMV 3 appeared to be fairly tolerant to root rot caused by S bataticola under Delhi conditions.

6807-68
CHITIN-LIGNIN AMENDMENTS FOR CONTROL OF BEAN ROOT ROT.
C L Maurer R Baker
Phytopathology 53(8) 882
Aug 1963 464.8 P56
Beans, Chitin, Lignin, Root rot (beans).

6808-68
MYCELIAL PROTEIN COMPARISONS OF ISOLATES OF CUCURBIT ANTHRACNOSE FUNGI.
C L McCombs N N Winstead
Phytopathology 53(8) 882
Aug 1963 464.8 P56
Anthracnose (cucurbita), Colletotrichum, Fungi, Glomerella,
Mycelium, Proteins.

6809-68
HETEROTHALLISM IN PYRENOPHORA TERES.
W C McDonald
Phytopathology 53(7) 771-773, PL.
Jul 1963 464.8 P56
Barley, Cultural control (plant diseases), Culture media,
Grasses, Mycology, Pathogenicity, Plant genetics,
Plant morphology, Plant reproduction, Pyrenophora.

6810-68
PHYTOPATROLOGICAL NOTES.
INDUCING INFECTION OF PEAR ROOTLETS BY PHYTOPHTHORA CACTORUM IN POT TESTS.
D L McIntosh R J O Reilly
Phytopathology 53(12) 1447, BIBL.

Dec 1963 464.8 P56
Pears, Phytophthora, Roots.

6811-68
INOCULATION AND RUST DEVELOPMENT ON PEANUTS GROWN IN THE GREENHOUSE.
D V McVey F A Jimenez
Phytopathology 53(8) 882
Aug 1963 464.8 P56
Greenhouse culture, Immunization, Peanuts, Puccinia.

6812-68
GREENEUG DISPERSAL AND DISTRIBUTION OF BARLEY YELLOW DWARF VIRUS IN WISCONSIN.
J T Medler P W Smith
J Econ Entomol 53(3) 473-474, BIBL.
Jun 1960 421 J822
Oats, Population statistics, Toxoptera, Yellow dwarf (barley).

6813-68
METABOLISM OF RESISTANT AND SUSCEPTIBLE CUCUMBER VARIETIES INFECTED WITH CUCUMBER MOSAIC VIRUS.
G H Menke J C Walker
Phytopathology 53(11) 1349-1355, BIBL.
Nov 1963 464.8 P56
Cucumbers, Leaves, Metabolism, Mosaic (cucumbers), Plant disease resistance.

6814-68
PHYSIOLCGY OF RHIZOPUS INFECTION ON CARROT.
G H Menke
Phytopathology 53(8) 882
Aug 1963 464.8 P56
Carrots, Plant physiology, Rhizopus.

6815-68
RESPONSE OF PLANTS TO AIR POLLUTANTS. II. EFFECTS OF OZONE CONCENTRATION AND LEAF MATURITY ON INJURY TO NICOTIANA TABACUM.
H A Menser H E Heggestad O E Street
Phytopathology 53(11) 1304-1308, BIBL., PL.
Nov 1963 464.8 P56
Air pollution, Leaves, Ozone, Tobacco, Weather fleck (tobacco).

6816-68
THE UTILIZATION OF LIGNO-CELLULOSE BY COMMON MOLD FUNGI.
W Merrill D W French
Phytopathology 53(8) 882
Aug 1963 464.8 P56
Fungi, Lignocellulose, Molds, Populus.

6817-68
AN INVESTIGATION OF THERMAL INACTIVATION OF ALFALFA MOSAIC VIRUS.
J A Milbrath
Phytopathology 53(9) 1036-1040, BIBL., TABS.
Sep 1963 464.8 P56
Alfalfa, Heat, Mosaic (alfalfa).

6818-68
VARIABILITY IN RATES OF MOVEMENT OF DIFFERENT STRAINS OF THE VIRUS RESPCNSIBLE FCR PRUNE DWARF.
J A Milbrath
Phytopathology 53(9) 1106-1108, BIBL., PL.
Sep 1963 464.8 P56
Cherries, Dwarf disease (prunus), Prunes, Prunus mahaleb, Yellows (cherries).

6819-68
OZONE INJURY TO THE FOLIAGE OF PINUS PONDEROSA.
P R Miller J R Parmeter Jr O C Taylor E A Cardiff
Phytopathology 53(9) 1072-1076, BIBL. 1075-1076, PL.
Sep 1963 464.8 P56
Leaves, Ozone, Pinus, Smog.

6820-68
SOME BIOCHEMICAL CHANGES ASSOCIATED WITH VIRUS INFECTION IN APPLE.
D F Millikan
Phytopathology 53(8) 883
Aug 1963 464.8 P56
Apples, Biochemistry, Virus diseases (plants).

6821-68
PROPERTIES OF TULARE APPLE MOSAIC VIRUS.
G I Mink J B Bancroft M J Nadakavukaren
Phytopathology 53(8) 973-978, BIBL. 977-978, TABS., PL.
Aug 1963 464.8 P56
Apples, N-butanol, Tulare mosaic (apples).

6822-68
ADDITION OF FUNGAL CELL-WALL COMPONENTS TO SOIL FOR BIOLOGICAL DISEASE CONTROL.
R Mitchell
Phytopathology 53(9) 1068-1071, BIBL., PL.
Sep 1963 464.8 P56
Agrobacterium, Biological control (diseases), Cells, Chitin, Fusarium, Laminarin, Pythium, Soil sterilization, Soil-borne plant diseases.

6823-68
PLANT INTRODUCTION SOUR CHERRY SELECTIONS - PROBABLE SOURCES OF BROWN ROT RESISTANCE.
J D Moore R D Berger A V Ravenscroft
Phytopathology 53(8) 883
Aug 1963 464.8 P56
Brown rot (cherries), Cherries, Monilinia, Plant introduction.

6824-68
POTENTILLA SPECIES AS HOSTS FOR PHYTOPHTHORA FRAGARIAE.
J N Moore D H Scott R H Converse
Phytopathology 53(8) 883
Aug 1963 464.8 P56
Greenhouse culture, Phytophthora, Potentilla.

6825-68
CALCIUM NUTRITION IN RELATION TO THE BLACK SHANK DISEASE OF TOBACCO.
L D Moore W H Wills
Plant Dis Rep 51 (8)0 641-644
Aug 1967 1.9 P69P
Black shank (tobacco), Calcium, Fungus diseases (plants), Phytophthora parasitica nicotianae, Plant disease resistance, Plant nutritional deficiencies, Tobacco.
The affect of calcium supplied in modified Hoagland s solution on susceptibility of tobacco to Phytophthora parasitic var. nicotianae was investigated in a series of experiments. when black shank resistant and susceptible tobacco was grown in solution culture in the greenhouse at several calcium levels, less than 5 percent of the plants were diseased at 20 ppm supplied calcium in contrast to 85 to 100 percent diseased at 100 ppm or higher calcium. the effect was dependent upon the amount of calcium supplied in the nutrient solution at the time of inoculation and was independent of prior nutrition. the effect was apparently independent of pH of the growth medium.

6826-68
POTATO YELLOW VEIN VIRUS IN EQUADOR.
J D Moreno
Phytopathology 53(8) 883-884
Aug 1963 464.8 P56
Equador, Potatoes.

6827-68
INFECTION INHIBITION AND GERM-TUBE LYSIS OF THREE CEREAL RUSTS BY BACILLUS PUMILUS.
F L Morgan
Phytopathology 53(11) 1346-1348, BIBL.
Nov 1963 464.8 P56
Bacillus, Grain, Lysis, Puccinia, Rust (grain).

6828-68
RELATIONSHIP OF GENES CONDITIONING PATHOGENICITY OF ERYSIPHE GRAMINIS F. SP. HORDEI ON BARLEY.
J G Moseman
Phytopathology 53(11) 1326-1330, BIBL. 1329-1330, TABS.
Nov 1963 464.8 P56
Barley, Erysiphe, Genes, Pathogenicity.

6829-68
HAIRY ROOT (AGROBACTERIUM RHIZOGENES) OF FIELD ROSES.
D E Munnecke P A Chandler M P Starr
Phytopathology 53(7) 788-799, BIBL., TABS., PL.
Jul 1963 464.8 P56
Agrobacterium, Bactericides, Chemical control (plant diseases), Dichloropropane dichloropropene mixture, Hairy root (rosa), Nematocides, Nematode vectors, Rosa, Sanitation control (pests), Sodium hypochlorite.

6830-68
STUDIES ON TOBACCO MOSAIC VIRUS (TMV) INFECTION OF SUSPENDED CALLUS CELLS.
H H Murakishi
Phytopathology 53(8) 884

Aug 1963 464.8 P56
Mosaic (tobacco), Tobacco.

6831-68
CERATOCYSTIS FAGACEARUM IN ROOTS OF INFECTED BUR OAKS AND THE RECURRENCE AND SPREAD OF OAK WILT.
V M G Nair J E Kuntz
Phytopathology 53(8) 884
Aug 1963 464.8 P56
Ceratocystis, Quercus, Roots, Wilt (quercus).

6832-68
EFFECTS OF USTILAGO AVENAE ON GROWTH OF TWO OAT VARIETIES.
A Narain H H Luke
Phytopathology 53(11) 1363-1364, BIBL. 1363-1364
Nov 1963 464.8 P56
Growth factors, Oats, Ustilago.

6833-68
PERSISTENCE OF CORYNEBACTERIUM INSIDIOSUM IN SOIL.
G A Nelson G Semeniuk
Phytopathology 53(10) 1167-1169, BIBL.
Oct 1963 464.8 P56
Alfalfa, Bacterial wilt (alfalfa), Corynebacterium, Soils.

6834-68
CHARACTERISTICS OF AN UNIDENTIFIED VIRUS FROM CUCURBITS.
M R Nelson J C Matejka
Phytopathology 53(10) 1140-1141
Oct 1963 464.8 P56
Cantaloupes, Cucurbits.

6835-68
EFFECTS OF GEOGRAPHIC ISOLATION AND HOST ASSOCIATION ON THE EVOLUTION OF SEXUALITY IN HELMINTHOSPORIUM.
R R Nelson D M Kline R Wilson
Phytopathology 53(8) 884
Aug 1963 464.8 P56
Fertility, Geography, Helminthosporium, Metamorphosis, Sex.

6836-68
RED LEAF DISORDERS OF PEAR IN CALIFORNIA AND THEIR RELATION TO PEAR DECLINE.
C W Nichols A A Millecan S M Gotan
Phytopathology 53(8) 884
Aug 1963 464.8 P56
California, Leaves, Pears, Red leaf disease (pears).

6837-68
SYMPTOMLESS HOSTS OF THE POTATO SPINDLE TUBER VIRUS (PSTV). *
M J C Brien W B Raymer
Phytopathology 53(8) 884
Aug 1963 464.8 P56
Petunia, Physalis, Potatoes, Spindle tuber (potatoes), Tomatoes.

6838-68
EFFECTS OF 2,6-DICHLORO-4-NITROANILINE ON RHIZOPUS SPECIES AND ITS COMPARISON WITH OTHER FUNGICIDES ON CONTROL OF RHIZOPUS ROT OF PEACHES.
J M Ogawa J H Mathre D J Weber S D Lyda
Phytopathology 53(8) 950-955, BIBL., PL.
Aug 1963 464.8 P56
Botran, Captan, Dichloro-4-nitroaniline, 2,6-, Orthocide, Peaches, Phaltan, Rhizopus, Rot (peaches).

6839-68
VARIATIONS IN TOLERANCE OF RHIZOPUS SPECIES TO 2,6-DICHLORO -4-NITROANILINE.
T M Ogawa T H Mathre
Phytopathology 53(10) 1141
Oct 1963 464.8 P56
Dichloro-4-nitroaniline, 2,6-, Fruit, Rhizopus.

6840-68
RELATION OF DECOMPOSING PLANT RESIDUES TO ROOT GROWTH OF ALFALFA.
J H Ohman T Kommedahl
Phytopathology 53(8) 884-885
Aug 1963 464.8 P56
Alfalfa, Decomposition, Growth factors, Plant residues, Roots.

6841-68
A TOXIC METABOLITE FROM ASCOCHYTA FABAE HAVING ANTIBIOTIC ACTIVITY.
R Oku T Nakanishi
Phytopathology 53(11) 1321-1325, BIBL., TABS., PL.
Nov 1963 464.8 P56
Antibiotics, Ascochyta, Broadbeans, Brown spot (broadbeans), Cochliobolus, Metabolites.

6842-68
FUNGISTATIC EFFECTS OF A SOIL BACTERIUM ON CONIDIA AND HYPHAE OF HELMINTROSPORIUM SATIVUM.
K M Old
Phytopathology 53(8) 885
Aug 1963 464.8 P56
Conidia, Fungicides, Helminthosporium, Hyphae, Soil bacteria.

6843-68
STUDIES ON A VIRUS CAUSING STEM GROOVING AND GRAFT-UNION ABNORMALITIES IN VIRGINIA CRAB APPLE.
O Omaro De Sequeira
Ann Appl Biol 60 (1), 59-66 REF
Aug 1967 442.8 AN72
Abnormalities, Chenopodium quinoa, Crabapples, Plant grafting, Virus diseases (plants).

6844-68
ELECTRON MICROSCOPY OF TOBACCO RATTLE TYPE VIRUSES.
ALLEN JR, T L.
Phytopathology 53(10) 1137
Oct 1963 464.8 P56
Corky ringspot (tobacco), Electron microscopy, Rattle disease (tobacco), Tobacco.

6845-68
REAPPRAISAL OF TRANSMISSION OF TOBACCO MOSAIC VIRUS BY INSECTS.
G B Orlob
Phytopathology 53(7) 822-830, BIBL. 829-830, TABS., PL.
Jul 1963 464.8 P56
Epitrix, Insect vectors, Lygus, Lygus lineolaris, Macrosiphum, Macrosiphum euphorbiae, Mosaic (tobacco), Plant disease transmission, Tobacco.

6846-68
EFFECT OF ROOTSTOCK ON THE INCIDENCE OF IMPIETRATURA-DISEASED GRAPEFRUIT FRUITS.
A Papasolomontos C V Economides
Plant Dis Rep 51(8)0 684-686
Aug 1967 1.9 P69P
Citrus, Grapefruit, Impietratura (citrus), Impietratura (grapefruit), Plant disease resistance, Virus diseases (plants).
The effect of different rootstocks on the susceptibility of the grapefruit scion to impietratura citrus virus was studied in a rootstock trial which began in 1961 and trees of which were cropped for the first time in 1964. the results to date indicate that impietratura-infected scions growing on Morton and Troyer citrange, Cleopatra mandarin, Palestine sweet lime, and sour orange are about equally susceptible. grapefruit scions growing on rough lemon have, however, consistently produced a higher percentage of diseased fruit than any of the above. in this trial, susceptibility was measured by the percentage of diseased fruit borne on each infected tree.

6847-68
MICROBIAL ANTAGONISM IN BEAN RHIZOSPHERE AS AFFECTED BY OAT STRAW AND SUPPLEMENTAL NITROGEN.
G C Papavizas
Phytopathology 53(12) 1430-1435, BIBL., TABS., PL.
Dec 1963 464.8 P56
Beans, Nitrogen, Oat straw, Rhizosphere.

6848-68
EFFECTS OF OAT STRAW AND SUPPLEMENTAL NITROGEN ON MICROBIAL ANTAGONISM IN BEAN RHIZOSPHERE.
G C Papavizas
Phytopathology 53(8) 885
Aug 1963 464.8 P56
Beans, Microorganisms, Nitrogen, Oat straw, Rhizosphere.

6849-68
RELATIONSHIP OF WATER CONTENT AND LIVING CELLS TO SPREAD OF DIPLODIA ZEAE IN CORN STALKS.
A J Pappelis F G Smith
Phytopathology 53(9) 1100-1105, BIBL. 1104-1105, TABS.
Sep 1963 464.8 P56
Cells, Corn, Diplodia, Pith, Water.

6850-68
SOME CHARACTERISTICS OF DWARF MISTLETOE POPULATIONS ON RED FIR.
J R Parmeter Jr R F Scharpf
Phytopathology 53(8) 885
Aug 1963 464.8 P56

20 6851-68

Abies, Arceuthobium, Dwarf mistletoe.

6851-68
FREE AMINO ACID AND AMIDE CONTENT OF TOBACCO AND OATS INFECTED BY WILDFIRE AND BALC BLIGBT BACTERIA.
P N Patel J C Walker
Phytopathology 53(8) 885
Aug 1963 464.8 P56
Amides, Amino acids, Balo blight (oats), Oats, Tobacco, Wildfire (tobacco).

6852-68
A SOIL-BORNE VIRUS DISEASE OF PEPPER IN CALIFORNIA.
A O Paulus I J Thomason L B Weathers
Phytopathology 53(8) 885-886
Aug 1963 464.8 P56
California, Piper nigrum, Redpeppers (vegetable), Soil-borne plant diseases.

6853-68
PATBOLOGICAL ANATOMY OF WALNUT ERANCHES INFECTED BY BENDERSCNUIA TORULCIDEA.
T Paxton
Phytopathology 53(10) 1141
Oct 1963 464.8 P56
Bendersonula, Juglans.

6854-68
SURVIVAL OF XANTBOMONAS VESICATORIA IN SOIL AND DISEASED TCMATC PLANTS.
G B Peterscn
Phytopathology 53(7) 765-767
Jul 1963 464.8 P56
Bacterial spot (tomatoes), Bibernation, Tomatoes, Xanthomonas.

6855-68
CONTROL OF CYLINDROSPORIUM LEAF SPOT DISEASE OF RHUS TRILOBATB AND SHEPHERDIA ARGENTEA SEEDLINGS.
G W Peterson
Plant Dis Rep 51 (8)0 700-701
Aug 1967 1.9 P69P
Bordeaux mixture, Captan, Chemical control (plant diseases), Cylindrosporium, Fungicides, Fungus diseases (plants), Leaf spot (Rhus trilobata), Leaf spot (Shepherdia argentea), Maneb, Rhus trilobata, Shepherdia argentea, Windbreaks.

6856-68
RELATIONSBIP OF TBE GENES CONDITIONING RESISTANCE TO ERYSIPBE GRAMINIS F. SP. BORDEI IN SOME VARIETIES OF BARLEY USED TO DIFFERENTIATE RACES OF TBIS PATHOGEN.
C R Pineda
Diss Abstr Sect B 27 (12,PT.1), 4214B
Jun 1967 Z5055.U49D53
Barley, Crop varieties, Erysiphe graminis hordei, Genes, Plant disease resistance.

6857-68
ENZYMES FRCM CONIDIA AND MATRIX OF COLLETOTRICHUM ORBICULARE GRCWN ON A NATURAL MEDIUM.
F M Porter
Phytopathology 53(8) 886
Aug 1963 464.8 P56
Colletotrichum, Conidia, Culture media, Enzymes, Matrices.

6858-68
RECOGNITION OF PBYMATOTRICBUM ROOT ROT OF COTTON AND ALFALFA IN AN AERIAL SURVEY.
R M Pratt G F Snow T R Carpenter
Phytopathology 53(10) 1141
Oct 1963 464.8 P56
Alfalfa, Cotton, Phymatotrichum, Root rot (cotton).

6859-68
BREAKDOWN OF MO MO RESISTANCE IN PISUM SATIVUM BY THERMAL SELECTION WITHIN CERTAIN STRAINS OF THE BEAN YELLOW MOSAIC VIRUS (EV2).
R Provvidenti W T Schroeder
Phytopathology 53(8) 886
Aug 1963 464.8 P56
Mo mo genotype, Plant disease resistance, Plant temperature, Yellow mosaic (beans).

6860-68
POSTINFECTION DEVELOPMENT OF WBEAT BUNT IN RELATION TO CCNTRCLLED SOIL MOISTURE.
L B Purdy
Phytopathology 53(8) 985-986, BIBL.
Aug 1963 464.8 P56

Soil moisture, Stinking smut (wheat), Wheat.

6861-68
THREE DISTINCT PATHOGENIC TYPES OF STRIPE RUST IN THE WESTERN STATES.
L H Purdy R E Allan
Phytopathology 53(8) 886
Aug 1963 464.8 P56
Puccinia, Stripe rust (wheat), Wheat.

6862-68
TIME OF YEAR OF INFECTION OF WINTER WBEAT BY THE DWARF BUNT FUNGUS.
L H Purdy J A Hoffmann J P Meiners V R Stewart
Phytopathology 53(12) 1419-1421, BIBL.
Dec 1963 464.8 P56
Dwarf bunt (wheat), Hexachlorobenzene, Stinking smut (wheat), Weather, Wheat.

6863-68
BACTERIAL WILT OF BIRD-OF-PARADISE CAUSED BY PSEUDOMONAS SOLANACEARUM.
V L Quinon M Aragaki
Phytopathology 53(9) 1115-1116, BIBL., PL.
Sep 1963 464.8 P56
Bacterial wilt (strelitzia), Pseudomonas, Strelitzia.

6864-68
ANTIBIOTIC PRODUCTION BY STREPTOMYCES SP. IN CORN RBIZOSPHERE.
G Rangaswami P Vidyasekaran
Phytopathology 53(9) 995-997, BIBL. 996-997, TABS.
Sep 1963 464.8 P56
Antibiotics, Corn, Belminthosporium, Rhizosphere, Streptomyces.

6865-68
DIFFERENTIATION OF VIRUSES TRANSMITTED FROM PELARGONIUM BORTORUM.
R A Reinert A C Bildebrandt G E Beck
Phytopathology 53(11) 1292-1298, BIBL. 1297-1298, TABS., PL.
Nov 1963 464.8 P56
Geranium, Pelargonium, Plant disease transmission, Virus diseases (plants).

6866-68
SPRING BLACK STEM OF ALFALFA IN RELATION TO TEMPERATURE, MOISTURE, WOUNDING, AND NUTRIENTS AND SOME OBSERVATICNS ON PATHOGEN DISSEMINATION.
B L Renfro R D Wilcoxson
Phytopathology 53(11) 1340-1345, BIBL. 1344-1345, TABS.
Nov 1963 464.8 P56
Alfalfa, Nutrient solutions (plants), Phytophthora, Spring black stem (alfalfa), Temperature.

6867-68
MOVEMENT OF TOBACCO NECROSIS VIRUS IN SYSTEMICALLY INFECTED SOYBEANS.
E C Resconich
Phytopathology 53(8) 913-916, BIBL., PL.
Aug 1963 464.8 P56
Necrosis, Soybeans, Tobacco.

6868-68
THE EFFECT OF DAPPLE APPLE AND STEM PITTING ON APPLE TREE GROWTH AND YIELDS IN NEW HAMPSBIRE OVER A FOURTEEN-YEAR PERIOD.
A E Rich
Phytopathology 53(8) 886
Aug 1963 464.8 P56
Apples, Crop yields, Dapple (apples), Growth factors, New Bampshire, Stem pitting (apples).

6869-68
INOCULUM POTENTIAL AND EFFECTIVE FUNGICIDE DOSAGE IN SOIL.
L T Richardson D E Munnecke
Phytopathology 53(10) 1141
Oct 1963 464.8 P56
Pythium, Soils, Thiram.

6870-68
STEMPHYLLIUM LEAFSPOT OF SAFFLOWER.
D A Roberts A S Muller G B Killinger
Phytopathology 53(8) 886
Aug 1963 464.8 P56
Leaf spot (safflowers), Safflower, Stemphyllium.

6871-68
AUTUMN AND WINTER SPORULATION BY BASIDIOCARPS OF FOMES ANNOSUS.
T D Rogers
Phytopathology 53(10) 1141-1142
Oct 1963 464.8 P56
Basidiocarps, Fomes, Sporulation, Weather.

6872-68
PURIFICATION, MORPHOLOGY, AND BIOCBEMICAL CHARACTERIZATION OF THE WISCONSIN PEA STREAK VIRUS.
E E Rosencranz D J Hagedorn
Phytopathology 53(8) 887
Aug 1963 464.8 P56
Biochemistry, Morphology, Peas, Purification, Streak (peas), Wisconsin.

6873-68
INTERACTION OF THE SOYBEAN MOSAIC AND BEAN POD MOTTLE VIRUSES INFECTING SOYBEANS.
J P Ross
Phytopathology 53(8) 887
Aug 1963 464.8 P56
Mosaic (soybeans), Mottle (bean pods), Plant disease transmission, Soybeans.

6874-68
INHIBITION OF GERMINATION OF SPORES OF ALTERNARIA PORRI F. SP. SCLANI.
J Rotem
Phytopathology 53(10) 1241, BIBL.
Oct 1963 464.8 P56
Alternaria, Spore germination.

6875-68
PHYTOPHTHORA CINNAMOMI ROOT ROT OF DOUGLAS-FIR.
L F Roth
Phytopathology 53(10) 1128-1131, BIBL.
Oct 1963 464.8 P56
Phytophthora, Pseudotsuga, Root rot (pseudotsuga menziesii).

6876-68
GENETIC MODEL FOR PBYSIOLOGIC STUDIES OF MECBANISMS GOVERNING DEVELOPMENT OF INFECTION TYPE IN WHEAT STEM RUST.
J B Rowell W Q Loegering B R Powers Jr
Phytopathology 53(8) 932-937, BIBL. 936-937, PL.
Aug 1963 464.8 P56
Genetics, Puccina, Stem rust (wheat), Wheat.

6877-68
PREVENTION OF SYMPTOM DEVELOPMENT OF FUSARIUM WILT OF COTTON BY ISOLATES OF A CEPHALOSPORIUM SPECIES.
I Roy M Patel
Phytopathology 53(8) 887
Aug 1963 464.8 P56
Cephalosporium, Cotton, Fusarium, Wilt (cotton), Wilt (tomatoes).

6878-68
COMPARISONS OF PEA ENATION MOSAIC VIRUS ISOLATES.
E G Ruppel D J Hagedorn
Phytopathology 53(7) 813-818, BIBL. 818, TABS., PL.
Jul 1963 464.8 P56
Beans, Enation mosaic (peas), Longevity, Peas, Plant disease resistance, Virology, Virus diseases (plants).

6879-68
MEASURING TBE PATBOGENIC POTENTIAL OF PUCCINIA CORONATA VAR. AVENAE.
E E Saari M B Moore
Phytopathology 53(8) 887
Aug 1963 464.8 P56
Crown rust (oats), Oats, Puccinia, Rhamnus.

6880-68
USE OF RUST (PUCCINIA HELIANTHI) RACES TO DISCOVER NEW GENE POOLS FOR RUST RESISTANCE IN SUNFLOWER (BELIANTHUS ANNUUS).
W E Sackston M A Jabbar Miah
Phytopathology 53(8) 887
Aug 1963 464.8 P56
Genes, Puccinia, Rust (sunflower).

6881-68
CBEMICAL CONTROL OF BACTERIAL BLIGBTS OF DRY FIELD BEANS IN MICBIGAN BY FOLIAGE SPRAYS APPLIED BY GROUND AND AIR EQUIPMENT.
A W Saettler H S Potter
Plant Dis Rep 51(8)0622-625
Aug 1967 1.9 P69P
Aerial plant disease control, Aircraft, Chemical control (plant diseases), Copper compounds, Halo blight (beans), Helicopters, Spraying equipment, Thiocarbamates.
Michigan State University Cooperative Extension Service, East Lansing, cooperating.
Spray experiments for the chemical control of the halo and common bacterial blights of dry beans were conducted on various commercial colored bean and white navy (pea) bean fields in Michigan during the 1966 growing season. six different copper compounds applied by both air and ground equipment were equally efficacious in controlling disease. spraying with copper compounds had a beneficial effect on the yield of Dark Red Kidney and Light Red Kidney beans, but not of Sanilac navy beans. the result of 2 years of study suggest that spraying beans for blight control may be an effective, immediate means of reducing bean losses accompanying blight infection.

6882-68
SPORANGIAL GERMINATION OF SCLEROSPORA GRAMINICOLA AND INOCULATION OF PENNISETUM GLAUCUM.
K M Safeeulla C G Shaw
Phytopathology 53(10) 1142
Oct 1963 464.8 P56
Durra, Pearlmillet, Sclerospora, Spore germination.

6883-68
OOSPORE CHARACTERS IN THE CLASSIFICATION OF SCLEROPBTBORA AND SCLEROSPORA SPECIES.
K M Safeeulla C G Shaw
Phytopathology 53(8) 887
Aug 1963 464.8 P56
Oospores, Sclerophthora, Sclerospora.

6884-68
RESISTANCE IN MATTHIOLA INCANA TO TBE TURNIP MOSAIC VIRUS.
M O San Juan G S Pound
Phytopathology 53(11) 1276-1279, BIBL., PL.
Nov 1963 464.8 P56
Matthiola, Mosaic (turnips), Plant disease resistance, Turnips, Virus A (cabbage).

6885-68
VARIATION WITHIN AND AMONG SPECIES OF MELOIDOGYNE.
J N Sasser
Phytopathology 53(8) 887-888
Aug 1963 464.8 P56
Meloidogyne, Plant hosts, Population.

6886-68
HOSTIPARASITE INTERACTION IN BLACKSPOT DISEASE OF ROSES CAUSED BY DIPLOCARPON ROSAE WOLF.
P J W Saunders
Ann Appl Biol 60 (1), 129-136 REF
Aug 1967 442.8 AN72
Amino acids, Black spot (rosa), Diplocarpon rosae, Parasitism, Plant disease resistance, Rosa.

6887-68
EFFECTS OF RAPID COOLING TO SUBZERO TEMPERATURES ON MELOIDOGYNE HAPLA AND M. INCOGNITA.
R M Sayre
Phytopathology 53(8) 888
Aug 1963 464.8 P56
Cooling, Meloidogyne, Temperature.

6888-68
EPIDEMIOLOGY OF GLUME BLOTCH OF WBEAT.
A L Scharen
Phytopathology 53(7) 747
Jul 1963 464.8 P56
Epidemiology, Glume blotch (wheat), Plant disease transmission, Wheat.

6889-68
UPTAKE OF BELMINTBOSPORIUM VICTORIAE TOXIN BY OAT TISSUE.
R P Scheffer R B Pringle N P Dast
Phytopathology 53(8) 888
Aug 1963 464.8 P56
Helminthosporium, Oats, Tissues, Toxins.

6890-68
TRANSMISSION OF A VIRUS DISEASE OF MUSHROOMS BY INFECTED SPORES.
L C Schisler J W Sinden E M Sigel
Phytopathology 53(8) 888
Aug 1963 464.8 P56
Dieback (mushrooms), Mushrooms, Plant disease transmission, Virus diseases (plants).

6891-68
COMMON ANTIGENS IN XANTHOMONAS MALVACEARUM AND GOSSYPIUM HIRSUTUM AND THEIR POSSIBLE RELATIONSHIP TO HOST SPECIFICITY AND DISEASE RESISTANCE.
W C Schnathorst T E DeVay
Phytopathology 53(10) 1142
Oct 1963 464.8 P56
Antigens, Cotton, Plant disease resistance, Xanthomonas.

6892-68
THEORETICAL RELATIONSHIPS BETWEEN INOCULUM POTENTIAL AND DISEASE SEVERITY BASED ON A STUDY OF THE VARIATION IN VIRULENCE AMONG ISOLATES OF VERTICILLIUM ALBO-ATRUM.
W C Schnathorst
Phytopathology 53(8) 888
Aug 1963 464.8 P56
Immunization, Verticillium.

6893-68
FACTORS AFFECTING RESISTANCE OF WHEAT TO SCAB CAUSED BY GIBBERELLA ZEAE.
H W Schroeder J J Christensen
Phytopathology 53(7) 831-838, BIBL. 838, TABS., PL.
Jul 1963 464.8 P56
Ghibberella, Plant disease resistance, Scab (wheat), Wheat.

6894-68
THE RELATION BETWEEN STORAGE MOLDS AND DAMAGE IN HIGH-MOISTURE RICE IN AERATED STORAGE.
H W Schroeder
Phytopathology 53(7) 804-808, TABS
Jul 1963 464.8 P56
Food storage, Molds, Rice, Storage diseases, Ventilation.

6895-68
ORANGE STAIN, A STORAGE DISEASE OF RICE CAUSED BY PENICILLIUM PUPERULUM.
H W Schroeder
Phytopathology 53(7) 843-845, PL.
Jul 1963 464.8 P56
Color, Orange stain, Penicillium, Pigments (plant), Rice, Storage diseases.

6896-68
REPRODUCTION OF PRATYLENCHUS PENETRANS ON CORN ROOTS CULTURED ON VARIOUS NUTRIENT MEDIA.
P H Schroeder
Phytopathology 53(8) 888-889
Aug 1963 464.8 P56
Corn, Nutrient solutions (plants), Pratylenchus, Reproduction, Roots.

6897-68
BENTONITE FLOCCULATION A RAPID, SENSITIVE SEROLOGICAL TEST FOR THE DETECTION OF PLANT VIRUS ANTIGENS.
H A Scott J Bozicevich M M Vincent
Phytopathology 53(8) 889
Aug 1963 464.8 P56
Antigens, Bentonite, Flocculation, Serological tests, Viruses.

6898-68
A NEW RACE OF PLASMODIOPHORA BRASSICAE AFFECTING BADGER SHIPPER CABBAGE.
W L Seaman J L Walker L H Larson
Phytopathology 53(12) 1426-1429, BIBL., TABS., PL.
Dec 1963 464.8 P56
Cabbage, Fungus diseases (plants), Plasmodiophora.

6899-68
EFFECTS OF ULTRAVIOLET PREINOCULATION TREATMENT OF LEAVES ON SUBSEQUENT INFECTION BY TOBACCO MOSAIC VIRUS AND TMV. RIBONUCLEIC ACID.
T Semal S G Wildman T H Wu
Phytopathology 53(10) 1142
Oct 1963 464.8 P56
Leaves, Mosaic (tobacco), Ribonucleic acid, Tobacco, Ultraviolet rays.

6900-68
INHIBITION OF INDOLEACETIC ACID OXIDASE IN TOBACCO PLANTS INFECTED BY PSEUDOMONAS SOLANACEARUM.
L Sequeira
Phytopathology 53(8) 889
Aug 1963 464.8 P56
Indoleacetic acid, Pseudomonas, Tobacco.

6901-68
THE NATURE OF STAIN UPTAKE IN ULTRATHIN SECTIONS OF TOBACCO MOSAIC VIRUS.
T A Shalla T W Carroll G A DeZoeten
Phytopathology 53(10) 1142
Oct 1963 464.8 P56
Electron microscopy, Mosaic (tobacco), Tobacco, Tomatoes.

6902-68
STUDIES ON THE AGGREGATION OF TOBACCO MOSAIC VIRUS IN THE GROUND CYTOPLASM AND CHLOROPLASTS OF TOMATO.
T A Shalla
Phytopathology 53(10) 1142
Oct 1963 464.8 P56
Chloroplasts, Cytoplasm, Mosaic (tobacco), Tomatoes.

6903-68
EFFECTS OF VARIOUS DIURNAL TEMPERATURE PROFILES ON HOST-PARASITE REACTION OF WHEAT VARIETIES AND PUCCINIA STRIIFORMIS.
E L Sharp
Phytopathology 53(8) 889
Aug 1963 464.8 P56
Diurnal rhythm, Host plants, Parasitism, Puccinia, Temperature, Wheat.

6904-68
OVERWINTERING OF STRIPE RUST IN WINTER WHEAT IN MONTANA.
E L Sharp E R Hehn
Phytopathology 53(10) 1239-1240, BIBL.
Oct 1963 464.8 P56
Hibernation, Montana, Puccinia, Stripe rust (wheat), Wheat.

6905-68
IDENTIFICATION OF THREE PHYSIOLOGIC RACES OF RHIZOCTONIA SOLANI ISOLATED FROM SEEDLING COTTON.
M N Shatla
Phytopathology 53(8) 889
Aug 1963 464.8 P56
Cotton, Rhizoctonia, Seedlings.

6906-68
SEROLOGICAL RELATIONSHIP BETWEEN BEAN POD MOTTLE VIRUS AND COWPEA MOSAIC VIRUSES FROM ARKANSAS AND TRINIDAD.
R J Shepherd
Phytopathology 53(7) 865-866, PL.
Jul 1963 464.8 P56
Arkansas, Ceratoma, Cowpeas, Mosaic (cowpeas), Mottle (bean pod), Trinidad.

6907-68
TOBACCO MOSAIC VIRUS ACTIVITY AND GROWTH OF INOCULATED TOBACCO SECONDARY SINGLE-CELL CLONES.
R C Sievert A C Hildebrandt A J Riker
Phytopathology 53(8) 889
Aug 1963 464.8 P56
Clones, Mosaic (tobacco), Tobacco.

6908-68
A METHOD OF USING MYCELIAL, MONOSPORIDIAL ISOLATES OF TILLETIA CONTROVERSA IN PEDIGREED HYBRID CROSSES.
M J Silvernagel
Phytopathology 53(10) 1235-1236, BIBL.
Oct 1963 464.8 P56
Breeding, Stinking smut (wheat), Tilletia, Wheat.

6909-68
THE EFFECT OF GROWTH SUBSTANCES ON VERTICILLIUM WILT OF TOMATO PLANTS.
A K Sinha R K S Wood
Ann Appl Biol 60 (1), 117-128 REF
Aug 1967 442.8 AN72
Chemical control (plant diseases), Plant regulators, Tomatoes, Verticillium albo-atrum, Wilt (tomatoes).

6910-68
EFFECT OF AGE OF VECTOR AND OF ABDOMEN PUNCTURES ON VIRUS TRANSMISSION.
R C Sinha
Phytopathology 53(10) 1170-1173, BIBL. 1172-1173, TABS.
Oct 1963 464.8 P56
Abdomen, Insect vectors, Plant disease transmission, Virus diseases (plants), Yellow dwarf (potatoes).

6911-68
PATHOGENICITY OF PHACIDIUM ABIETIS.
E Smerlis
Plant Dis Rep 51 (8)0 678-679
Aug 1967 1.9 P69P
Fungus diseases (plants), Phacidium abietis, Picea, Pinus,

Snow blight (Coniferae), Thuja.

6912-68
HYDROTHERMAL AND HYGROTHERMAL INACTIVATION OF MONILINIA FRUCTICOLA AND RHIZOPUS STOLONIFER SPORES.
W L Smith Jr E D Bassett
Phytopathology 53(7) 747
Jul 1963 464.8 P56
Heat, Hot water treatment (plants), Humidity, Monilinia, Plant disease control, Rhizopus.

6913-68
CONTROL OF THE CHARCOAL ROOT DISEASE OF WHITE FIR BY FALL SOIL FUMIGATION.
R S Smith S L Krugman
Plant Dis Rep 51 (8)0 671-674
Aug 1967 1.9 P69P
Abies concolor, Charcoal root (Abies concolor), Charcoal root (Pinus ponierosa), Fungus diseases (plants), Macrophomina phaseoli, Methyl and propargyl bromides plus trichloronitromethane, Methyl bromide plus trichloronitromethane, Pinus ponderosa, Plant disease control, Soil fumigation.
A fall application of two soil fumigants was tested as a means of reducing mortality of white fir and ponderosa pine nursery seedlings from the charcoal root disease and as a means of producing disease-free stock. fumigation treatments lowered fir seedling mortality by about 50 percent and reduced the proportion of seedlings of both species with infected roots from 100 percent in the untreated beds to 25 percent in the better of the two treatments. the mean number of infections per seedling sample also was reduced from 8.1 to 0.3 in the fir and from 3.9 to 0.2 in the pine root tips, lateral roots, and tap roots differed in their susceptibility to infection. it appears that a fall soil treatment with these fumigants will control the charcoal root disease and will produce disease-free stock.

6914-68
BIPHENYL-RESISTANT CITRUS GREEN MOLD REPORTED IN FLORIDA.
J J Smoot J R Winston
Plant Dis Rep 51 (8)0 700
Aug 1967 1.9 P69P
Biphenyl, Citrus, Fungicide resistant fungi, Fungus diseases (plants), Green mold (citrus), Penicillium digitatum, Storage diseases.

6915-68
EFFECTS OF SOME CYTOKININS ON TOBACCO AND THEIR RELATION TO TOBACCO MOSAIC VIRUS INFECTION.
L C Scans
Diss Abstr Sect B 27 (12,PT.1), 4210B-4211B
Jun 1967 Z5055.U49D53
Benzimidazole, Benzyl-9-(tetrahydropyran-2-yl)-adenine, N-, Kinetin, Kinins, Mosaic (tobacco), Plant physiology, Tobacco.

6916-68
STEMPHYLIUM LEAFSPOT OF ECHEVERIA, KALANCHOE, AND SEDUM.
E K Sobers C P Seymour
Phytopathology 53(12) 1443-1446, BIBL., PL.
Dec 1963 464.8 P56
Alfalfa, Echeveria, Kalanchoe, Leafspot (echeveria), Leafspot (kalanchoe), Leafspot (sedum), Sedum, Stemphylium, Tomatoes.

6917-68
IMPROVING EMERGENCE OF PELLETED VEGETABLE SEEDS WITH POROUS COATINGS.
C A Sooter
Diss Abstr Sect B 27 (12,PT.1), 4366B-4367B
Jun 1967 Z5055.U49D53
Seed germination, Seed treatment, Vegetables.

6918-68
THREE DISEASES OF GUAR.
G Sowell Jr
Phytopathology 53(8) 890
Aug 1963 464.8 P56
Guar, Xanthomonas.

6919-68
PRODUCTION OF PECTINOLYTIC AND CELLULOLYTIC ENZYMES BY RHIZOPUS STOLONIFER.
D H Spalding
Phytopathology 53(8) 929-931, BIBL. 930-931
Aug 1963 464.8 P56
Cellulase, Enzymes, Rhizopus.

6920-68
FACTORS AFFECTING THE PATHOGENESIS OF PYTHIUM SPECIES ON COTTON (GOSSYPIUM HIRSUTUM L) SEEDLINGS.
J A Spencer
Diss Abstr Sect B 27 (12,PT.1), 4211B
Jun 1967 Z5055.U49D53
Calcium, Cotton, Plant diseases, Plant nutrition, Plant senescence, Pythium, Root excretions.

6921-68
NEW RECORD OF THE OCCURRENCE OF MANGO SHOOT-GALL DISEASE IN THE UPPER INDO-GANGETIC PLAIN.
G P Srivastava
Indian J Entomol 28 (3), 411
Sep 1966 420 IN23
Apsylla cistellata, Mangoes, Plant diseases.

6922-68
RELATION OF AGROPYRON REPENS MOSAIC AND WHEAT STREAK MOSAIC VIRUS.
R Staples M Brakke
Phytopathology 53(8) 969-972, BIBL.
Aug 1963 464.8 P56
Agropyron, Mosaic (agropyron repens), Streak mosaic (wheat), Wheat.

6923-68
CHANGES IN MULTIPLE MOLECULAR ENZYMES IN RUSTED BEAN LEAVES.
R C Staples M A Stahmann
Phytopathology 53(8) 890
Aug 1963 464.8 P56
Beans, Enzymes, Leaves, Molecules, Rust (beans).

6924-68
STUDIES ON THE HOST RANGE AND PATHOGENICITY OF ERYSIPHE POLYGONI.
J R Stavely E W Hason
Phytopathology 53(8) 890
Aug 1963 464.8 P56
Erysiphe, Host range, Pathogenicity.

6925-68
IDENTIFICATION OF THE VIRUSES AFFECTING COMMERCIAL VARITIES OF PEPPER (CAPSICUM ANNUM) IN NEW JERSEY.
T L Steepy G D Lewis E H Varney
Plant Dis Rep 51 (8)0 709-711 REF
Aug 1967 1.9 P69P
Etch (redpeppers), Host indexing (plants), Mosaic (redpeppers), Redpeppers (vegetable), Serological tests, Virus diseases (plants), Virus X (redpeppers), Virus Y (redpeppers).
Differential hosts and serological techniques were used to identify viruses isolated in the summer and fall of 1965 from commercial plants of pepper (Capsicum annum) in New Jersey. tobacco etch virus was found to be the principal cause of virus diseases. tobacco mosaic virus, potato virus X, and cucumber mosaic virus were isolated from a small number of plantings, while potato virus Y was not isolated during the study.

6926-68
A MOSAIC VIRUS TRANSMITTED BY BEETLES AND A GRASSHOPPER.
W N Stoner
Phytopathology 53(8) 890
Aug 1963 464.8 P56
Acalymma, Diabrotica, Melanoplus, Plant disease transmission.

6927-68
A VIRUS INFECTING MAIZE IN SOUTH DAKOTA.
W N Stoner R D Gustin M L Macomb
Plant Dis Rep 51 (8)0 705-709
Aug 1967 1.9 P69P
Corn, Host indexing (plants), Plant disease resistance, Plant disease transmission, Virus diseases (plants).
A nonpersistent virus was found infecting corn (maize) in 1966 in South Dakota. preliminary studies indicate that the following monocotyledonous plants are susceptible. Echinochloa crusgalli, Hordeum vulgare, Setaria lutescens, Triticum aestivum, Zea mays, cvs. Golden Bantam, Seneca Chief, Stowell s Evergreen, and Golden Giant. seven dicotyledonous plant species were inoculated, but only Datura inermis proved susceptible. the symptom syndrome in Golden Bantam sweetcorn develops as local lesions on the inoculated leaves and progresses to a systematic infection that results in wilting, tip necrosis of the whorl leaves, and death within 10 to 14 days.

6928-68
TRANSMISSION OF THE STUBBORN AND PSOROSIS A VIRUSES OF CITRUS TO AN HERBACECUS HOST.
L W Storm R B Streets
Phytopatholcgy 53(10) 1142
Oct 1963 464.8 P56
Citrus, Cucumbers, Plant disease transmission, Psorosis (citrus), Virus A (citrus).

6929-68
A CAGE FOR FEEDING INSECTS THROUGH MEMBRANES.
R F Stouffer
Phytopathclogy 53(8) 890
Aug 1963 464.8 P56
Feeding, Insect cages, Insect vectors.

6930-68
STUDIES ON ASCCSPORE PRODUCTION BY MYCOSPHAERELLA MUSICOLA IN HCNDURAS.
R H Stover
Phytopathclogy 53(8) 890-891
Aug 1963 464.8 P56
Ascospore, Bananas, Honduras, Mycosphaerella.

6931-68
THE RCLE OF THE COAT PROTEIN IN THE INACTIVATION OF TOBACCO MOSAIC VIRUS BY ULTRAVIOLET LIGHT.
D G Streeter
Diss Abstr Sect H 27 (12,PT.1), 4287H-4288B
Jun 1967 Z5055.U49D53
Mosaic (tobacco), Proteins, Ultraviolet rays, Virus diseases (plants), Viruses.

6932-68
SIMILARITIES HETWEEN WOUND-TUMOR VIRUS AND THE HUMAN-PATHOGENIC REOVIRUSES.
G Streissle K Maramorosch
Phytopathclogy 53(8) 891
Aug 1963 464.8 P56
Reoviruses, Wound-tumor.

6933-68
AN UNIDENTIFIED FUNGUS PARASITIC ON THE SEED-CORN MAGGOT.
F E Strcng K Wells J W Apple
J Econ Entomol 53(3) 478-479, BIBL., PL.
Jun 1960 421 J822
Hylemya, Parasitism.

6934-68
FERTILIZER AND SOIL-FUMIGATION EFFECTS ON PYTHIUM SPLENDENS IN SOUTH FLORIDA.
T E Summers H W Burdine F D Wilson
Phytopathology 53(8) 891
Aug 1963 464.8 P56
Fertilizers, Florida, Jute, Kenaf, Pythium, Soil fumigation.

6935-68
INFECTION CF ALFALFA BY LEPTOSPHAERULINA BRIOSIANA.
L Sundheim
Phytopathology 53(8) 891
Aug 1963 464.8 P56
Alfalfa, Chlorosis (alfalfa), Leptosphaerulina.

6936-68
SCREENING SORGHUM VARIETIES FOR RESISTANCE TO THE COVERED KERNEL SMUT FUNGUS IN IRAQ.
S A Tamimi I A Al-Sohaily
Plant Dis Rep 51 (8)0 690-692
Aug 1967 1.9 P69P
Covered smut (sorghum), Crop varieties, Fungus diseases (plants), Plant disease resistance, Sorghum, Sphacelotheca sorghi.
Twenty-one sorghum varieties were evaluated for reaction to the covered kernel smut fungus (Sphacelotheca sorghi) at the College of Agriculture in Iraq. the local variety was included as a check. the results indicated that the reaction of these varieties was distinctly different. the variety Spur Peterita was immune, while Coes had White Norgaum were extremely susceptihle. three varieties, Red-lan, Reliance and White Yolo, exhihited a high level of resistance.

6937-68
TWO UNRELATED VIRUSES WHICH CAUSE WOODINESS DISEASE OF PASSICN FRUIT (PASSIFLORA EDULIS).
R H Taylor K A Kimhle
Phytopathology 53(10) 1143
Oct 1963 464.8 P56
Granadilla, Mosaic (cucumhers), Woodiness (granadilla).

6938-68
THE INACTIVATION OF VERTICILLIUM ALBO-ATRUM IN APRICOT TREES.
T B Taylor
Phytopathology 53(10) 1143
Oct 1963 464.8 P56
Apricots, Verticillium.

6939-68
A METHOD FOR EVALUATING SOIL FUNGICIDES.
P L Thayer C Wehlherg
Phytopathology 53(8) 891
Aug 1963 464.8 P56
Fungicides, Pythium, Rhizoctonia, Soils.

6940-68
SEDIMENTATION PROPERTIES OF TWC STONE FRUIT VIRUSES.
S A Tolin
Phytopathology 53(8) 891
Aug 1963 464.8 P56
Dwarf disease (prunus), Fruit, Mosaic (tohacco), Sedimentation.

6941-68
EFFECT OF FUNGICIDES ON THE RESPIRATION OF THREE SPECIES OF SOIL FUNGI.
D C Torgeson
Phytopathology 53(8) 891
Aug 1963 464.8 P56
Fungicides, Fusarium, Phytophthora, Respiration, Sclerotium, Soil fungi.

6942-68
STUDIES ON THE PASSAGE OF PRUNUS RINGSPOT VIRUS COMPLEX THROUGH PLUM SEED.
J A Traylor H E Williams J H Weinberger A K Wagnon
Phytopathology 53(10) 1143
Oct 1963 464.8 P56
Plums, Prunes, Ring spot (prunus), Seed-horne plant diseases, Seeds.

6943-68
EFFECTS OF SODIUM FLUORIDE ON GROWTH OF SOME PATHOGENIC FUNGI.
M Treshow
Phytopathology 53(8) 891-892
Aug 1963 464.8 P56
Alternaria, Botrytis, Colletotrichum, Fungi, Growth factors, Sodium fluoride.

6944-68
CULTURE OF THE DWARF BUNT FUNGUS.
E J Trione
Phytopathology 53(8) 892
Aug 1963 464.8 P56
Culture media, Dwarf hunt (wheat), Wheat.

6945-68
FUSARIUM YELLOWS AND RHIZOME ROT OF COMMON GINGER.
E E Trujillo
Phytopathology 53(11) 1370-1371, BIBL., PL.
Nov 1963 464.8 P56
Fusarium, Ginger, Rhizome, Rot (ginger).

6946-68
GROWTH INHIBITION OF PHYTOPHTHORA CINNAMOMI BY SOIL DIFFUSATES ON AGAR MEDIUM.
P H Tsao J L Hricker
Phytopathology 53(8) 892
Aug 1963 464.8 P56
Agar, Growth factors, Soil aeration.

6947-68
INFLUENCE OF ROOT EXUDATES OF CACAO AND OTHER PLANTS ON SPORE DEVELOPMENT OF PHYTOPHTHORA PALMIVORA.
P D Turner
Phytopathology 53(11) 1337-1339, BIBL.
Nov 1963 464.8 P56
Cacao, Chemotropism, Exudates, Phytophthora, Roots.

6948-68
RELATION OF CERCOSPORA INFECTION TO OIL APPLICATION ON THE DORSAL OR VENTRAL SIDE OF TUNG LEAVES.
T Van Der Zwet
Phytopathology 53(8) 892
Aug 1963 464.8 P56
Cercospora, Leaves, Oils, Tung oil tree.

6949-68
HISTOCHEMICAL STUDIES ON THE DEHYDROGENASES OF POTATO AFFECTED BY LATE BLIGHT.
M A Viswanathan R L Pelletier
Phytopathology 53(8) 892-893
Aug 1963 464.8 P56
Dehydrogenases, Late blight (potatoes), Potatoes.

6950-68
ROUGH FRUIT OF SWEET CHERRY.
B N Wadley
Phytopathology 53(10) 1144
Oct 1963 464.8 P56
Cherries, Plant disease transmission, Virus diseases (plants).

6951-68
CONTROL OF WESTERN X-DISEASE VIRUS IN UTAH ORCHARDS.
B N Wadley
Phytopathology 53(10) 1143-1144
Oct 1963 464.8 P56
Cherries, Peaches, Utah, Virus X (cherries), Virus X (peaches).

6952-68
DODDER TRANSMISSION OF CITRANGE STUNT VIRUS, A VIRUS ASSOCIATED WITH TATTER LEAF OF CITRUS.
L G Weathers M K Harjung
Plant Dis Rep 51 (8)0 629
Aug 1967 1.9 P69P
Cowpeas, Cuscuta subinclusa, Plant disease transmission, Stunt (citrange), Stunt (cowpeas), Tatter-leaf (citrus), Virus diseases (plants).

6953-68
STREPTOMYCIN RESISTANCE -- A TECHNIQUE FOR THE DIRECT ASSAY OF POTATO SCAB ORGANISMS FROM SOIL.
D F Weber J D Menzies J W Paden
Phytopathology 53(11) 1258-1260, BIBL., TABS.
Nov 1963 464.8 P56
Assay, Potatoes, Scab (potatoes), Soils, Streptomyces, Streptomycin.

6954-68
INHIBITION OF FUNGI BY CULTURE MEDIA PREVIOUSLY EXPOSED TO LIGHT.
A R Weinhold F F Hendrix Jr
Phytopathology 53(11) 1280-1284, BIBL. 1283-1284, PL.
Nov 1963 464.8 P56
Alternaria, Armillaria, Catalase, Culture media, Fusarium, Hydrogen peroxide, Light, Phytophthora, Rhizoctonia, Temperature, Verticillium.

6955-68
AN ELECTRON MICROSCOPE STUDY OF TMV LESIONS IN NICOTIANA GLUTINOSA.
M Weintraub H W J Ragetli
Phytopathology 53(8) 893
Aug 1963 464.8 P56
Electron micrcscopy, Mosaic (tobacco), Tobacco.

6956-68
ANATOMICAL ASPECTS OF RESISTANCE IN SWEETPOTATO TO FUSARIUM WILT.
J M Wells
Phytopathology 53(7) 747-748
Jul 1963 464.8 P56
Crop varieties, Fusarium, Plant anatomy, Plant disease resistance, Plant histology, Sweetpotatoes, Wilt (sweetpotatoes).

6957-68
INFLUENCE OF LIGHT ON GROWTH OF ASPERGILLUS RESTRICTUS IN AGAR CULTURE.
R E Welty C M Christensen
Phytopathology 53(8) 893
Aug 1963 464.8 P56
Agar, Aspergillus, Corn, Growth factors, Light.

6958-68
GREEN-SEEDED DOWNY MILDEW-RESISTANT FORDHOOK LIMA BEANS.
R E Wester
Phytopathology 53(7) 748
Jul 1963 464.8 P56
Downy mildew (lima beans), Lima beans, Plant disease resistance, Seeds.

6959-68
AN IMPROVED TECHNIQUE FOR INDUCING DIAGNOSTIC SYMPTOMS IN TOMATO INFECTED BY POTATO SPINDLE TUBER VIRUS.
E D Whitney L C Peterson
Phytopathology 53(8) 893
Aug 1963 464.8 P56
Diagnosis, Spindle tuber (potatoes), Tomatoes.

6960-68
RELATION OF SEED-BORNE FUNGI TO BOLL ROTS OF COTTON.
A B Wiles
Phytopathology 53(8) 984, BIBL.
Aug 1963 464.8 P56
Alternaria, Aspergillus, Boll rot (cotton), Cotton, Diplodia, Fusarium, Rhizopus, Seed-borne plant diseases.

6961-68
CONTROL OF PYTHIUM DAMPING-OFF OF MELONS BY SIMULTANEOUS SEEDING AND SOIL FUMIGATION WITH CHLOROPICRIN.
S Wilhelm
Phytopathology 53(10) 1144
Oct 1963 464.8 P56
Chloropicrin, Damping-off (melons), Melons, Pythium, Seed planting, Soil fumigation.

6962-68
VENTURIA INAEQUALIS (CKE.) WINT. XVI. AMINO ACIDS IN RELATION TO PATHOGENICITY OF TWO WILD-TYPE LINES TO TWO APPLE VARIETIES.
B J Williams D M Boone
Phytopathology 53(8) 979-983, BIBL. 982-983, TABS.
Aug 1963 464.8 P56
Apples, Venturia.

6963-68
THE INFECTIOUS NATURE OF POLLEN FROM CERTAIN VIRUS-INFECTED STONE FRUIT TREES.
H E Williams J A Traylor H K Wagnon
Phytopathology 53(10) 1144
Oct 1963 464.8 P56
Fruit, Plant disease transmission, Pollen, Virus diseases (plants).

6964-68
EFFECT OF CROP ROTATION ON YIELDS, STALK ROT, AND ROOT ROT OF CORN.
L E Williams A F Schmitthenner
Phytopathology 53(12) 1412-1414, BIBL., TABS.
Dec 1963 464.8 P56
Corn, Crop yields, Root rot (corn), Stalk rot (corn).

6965-68
NATURE AND INHERITANCE OF RESISTANCE TO ALBUGO CANDIDA IN RADISH.
P H Williams G S Pound
Phytopathology 53(10) 1150-1154, BIBL., TABS., PL.
Oct 1963 464.8 P56
Albugo, Heredity, Plant disease resistance, Radishes.

6966-68
WILTING OF PERSIMMON CAUSED BY CEPHALOSPORIUM DIOSPYRI.
C L Wilson
Phytopathology 53(12) 1402-1406, BIBL., PL.
Dec 1963 464.8 P56
Cephalosporium, Persimmons.

6967-68
PATHOLOGICAL HISTOLOGY OF TUMORS INDUCED IN OLEANDER BY PSEUDOMONAS SAVASTANOI.
E E Wilson A R Magie
Phytopathology 53(8) 893-894
Aug 1963 464.8 P56
Histology, Nerium, Plant galls, Pseudomonas.

6968-68
PRODUCTION OF PECTINOLYTIC AND CELLULOLYTIC ENZYMES BY CUCURBIT ANTHRACNOSE FUNGI.
N N Winstead C L McCombs
Phytopathology 53(8) 961-964, BIBL.
Aug 1963 464.8 P56
Anthracnose (cucurbita), Cellulose, Cucumbers, Enzymes, Glomerella.

6969-68
PROGRESSIVE DISTRIBUTION OF SOUTHERN BEAN MOSAIC VIRUS ANTIGEN IN BEAN LEAVES DETERMINED WITH A FLUORESCENT ANTIBODY STAIN.
J F Worley I R Schneider
Phytopathology 53(11) 1255-1257, BIBL., PL.
Nov 1963 464.8 P56

20 6970-68

Antibodies, Antigens, Beans, Fluorescent antibody technic, Leaves, Mosaic (beans).

6970-68
HEAT ACTIVATION OF DIFFERENT STRAINS OF TOBACCO MOSAIC VIRUS INFECTION ON VARIETIES OF BEANS (PHASEOLUS VULGARIS).
J H Wu S G Wildman
Phytopathology 53(10) 1144
Oct 1963 464.8 P56
Beans, Heat, Mosaic (tobacco), Tobacco.

6971-68
RELEASE OF INHIBITED TOBACCO MOSAIC VIRUS (TMV) INFECTION BY ULTRAVIOLET IRRADATION AS AFFECTED BY TIME AND TEMPERATURE AFTER INOCULATION.
J-h Wu S G Wildman
Phytopathology 53(8) 894
Aug 1963 464.8 P56
Mosaic (tobacco), Temperature, Time, Tobacco, Ultraviolet rays.

6972-68
PHOTOSYNTHETIC PHOSPHORYLATION BY CHLOROPLASTS ISOLATED FROM RUST-INFECTED OATS.
W K Wynn Jr
Phytopathology 53(11) 1376-1377, BIBL.
Nov 1963 464.8 P56
Chloroplasts, Oats, Photosynthesis, Rust (oats).

6973-68
PURIFICATION OF TULIP BREAKING VIRUS.
A Yamaguchi C Matsui
Phytopathology 53(11) 1374-1375, BIBL., PL.
Nov 1963 464.8 P56
Mosaic (tulipa), Tulipa.

6974-68
HEAT THERAPY OF BEAN RUST.
C E Yarwood
Phytopathology 53(11) 1313-1316, BIBL.
Nov 1963 464.8 P56
Beans, Heat, Rust (beans), Uromyces.

6975-68
PREDISPOSITION TO POWDERY MILDEW.
C E Yarwood
Phytopathology 53(10) 1144-1145
Oct 1963 464.8 P56
Beans, Cowpeas, Cucumbers, Powdery mildew (cucumbers), Sunflowers.

6976-68
MECHANICAL TRANSMISSION OF A LATENT LEMON VIRUS.
C E Yarwood
Phytopathology 53(10) 1145
Oct 1963 464.8 P56
Cowpeas, Lemons, Plant disease transmission, Virus diseases (plants).

6977-68
A NEW PEA STREAK VIRUS RELATED TO RED CLOVER VEIN MOSAIC VIRUS (RCVMV).
W J Zaumeyer R W Goth R E Ford
Phytopathology 53(8) 894
Aug 1963 464.8 P56
Peas, Red clover, Streak (peas), Vein mosaic (red clover).

6978-68
BIOLOGICAL CONTROL OF PHYTOPHTHORA ROOT ROT OF AVOCADO WITH ALFALFA MEAL.
G A Zentmyer
Phytopathology 53(12) 1383-1387, BIBL. 1386-1387, PL.
Dec 1963 464.8 P56
Alfalfa, Avocados, Biological control (diseases), Meal, Phytophthora, Root rot (avocados).

6979-68
SAPROPHYTISM AND PERSISTENCE IN SOIL BY PHYTOPHTHORA CINNAMOMI.
G A Zentmyer S M Mircetich
Phytopathology 53(10) 1145
Oct 1963 464.8 P56
Phytophthora, Saprophytes, Soils.

6980-68
TRANSMISSION OF BEAN MOSAIC VIRUS IN RELATION TO LENGTH OF PROBES BY APHIDS ALLOWED EITHER ONE OR SEVERAL ACQUISITION PROBES.
F N Zettler
Phytopathology 53(8) 894
Aug 1963 464.8 P56
Aphididae, Beans, Mosaic (beans), Plant disease transmission.

6981-68
EFFECT OF HEAT TREATMENT OF SUGARCANE FOR CONTROL OF RATOON STUNTING DISEASE (RSD) ON SPREAD OF MOSAIC.
N Zummo
Phytopathology 53(8) 894
Aug 1963 464.8 P56
Heat, Mosaic (sugarcane), Ratoon stunt (sugarcane), Sugarcane.

Arthropods

6982-68
THE BEET ARMYWORM, SPODOPTERA EXIGUA, AN ECONOMIC PEST OF CITRUS IN CALIFORNIA.
E L Atkins Jr
J Econ Entomol 53(4) 616-619, BIBL., PL.
Aug 1960 421 J822
Beets, Citrus, DDT , Parathion, Spodoptera.

6983-68
SOME EFFECTS OF AGE, PREIMAGINAL HABITAT, AND ADULT FOOD ON SUSCEPTIBILITY OF BOLL WEEVIL TO CERTAIN INSECTICIDES.
M H Bass J W Rawson
J Econ Entomol 53(4) 534-536, BIBL.
Aug 1960 421 J822
Anthonomus grandis, Azinphosmethyl, Benzene hexachloride, Cotton, Food, Habitats, Insecticide resistant insects, Life cycle, Toxaphene.

6984-68
A LABORATORY REARING METHOD FOR LYGUS HESPERUS KNIGHT.
G W Beards T F Leigh
J Econ Entomol 53(2) 327-328, BIBL.
Apr 1960 421 J822
Insect rearing, Lygus.

6985-68
SUSCEPTIBILITY OF LIFE STAGES OF THE MEXICAN FRUIT FLY TO FUMIGATION WITH ETHYLENE CHLOROBROMIDE.
C A Benschoter
J Econ Entomol 53(2) 323-325, BIBL., PL.
Apr 1960 421 J822
Anastrepha, Bromochloroethane, Citrus, Fumigation, Mangoes.

6986-68
THE EFFECTIVENESS OF CHLORINATED HYDROCARBON INSECTICIDE MIXTURES FOR CONTROL OF RESISTANT AND SUSCEPTIBLE BOLL WEEVILS.
J R Brazzel D A Lindquist
J Econ Entomol 53(4) 551-554, BIBL., TABS.
Aug 1960 421 J822
Anthonomus grandis, Chlorine, Cotton, DDT , Hydrocarbons, Toxaphene.

6987-68
INSECTICIDAL CONTROL OF THE HESSIAN FLY.
H E Brown
J Econ Entomol 53(4) 501-503, BIBL., TABS.
Aug 1960 421 J822
Am. cyanamid 12008, Cyanamide, Disulfoton, Insecticides, O,O-diethyl S-(isopropylthio)methyl phosphorodithioate, Phorate, Phytophaga, Wheat.

6988-68
LABORATORY STUDIES ON THE TOXICITY OF VARIOUS INSECTICIDES TO DIFFERENT STAGES OF THE ORIENTAL FRUIT MOTH.
M H Brunson
J Econ Entomol 53(3) 468-471, BIBL., TABS.
Jun 1960 421 J822
Azinphosmethyl, Carbaryl, EPN , Grapholitha, Insecticides, Methyl parathion, O-(3-chloro-4-nitro-phenyl)O,O-dimethyl phosphorothioate), Parathion, Peaches, Toxicology.

6989-68
INSECTS ASSOCIATED WITH WOUNDS ON TREES THAT DEVELOP OAK WILT.
W D Buchanan

J Econ Entomol 53(4) 578-581, BIBL., PL.
Aug 1960 421 J822
Fungi, Inoculum, Insect vectors, Wilt (quercus).

6990-68
EUROPEAN CORN BORER CONTROL IN PEPPERS.
P P Burbutis R VanDenburgh D F Bray L P Ditman
J Econ Entomol 53(4) 590-592, BIBL.
Aug 1960 421 J822
Carbaryl, Corn, DDT , Pepper (spice), Pyrausta.

6991-68
INFLUENCE OF TIMING AND INSECT BICLOGY ON THE EFFECTIVENESS OF INSECTICIDES APPLIED FOR CONTROL OE EUROPEAN PINE SHOOT MOTH, REYACIONIA BUCLIANA.
J W Butcher O L Haynes
J Econ Entomol 53(3) 349-354, BIBL.
Jun 1960 421 J822
Azinphosmethyl, Carbaryl, Dimethoate, DDT , Insect biology, Insecticides, Mevinphos, Pinus, Rhyacionia.

6992-68
BIONOMICS AND CONTROL OF CERTAIN PLUSIINAE AND STUDIES OF AN ASSOCIATED NUCLEAR POLYHEDROSIS VIRUS.
T D Canerday
Diss Abstr Sect B 27 (12,PT.1), 4435B
Jun 1967 Z5055.U49D53
Field crops, Insect biology, Insect rearing, Pieris rapae, Plusiinae, Polyhedroses, Pseudoplusia includens, Rachiplusia ou, Trichoplusia ni, Vegetables.

6993-68
PHENOCOCCUS SOLANE EERRIS, A TOXICOGENIC INSECT.
W Carter
J Econ Entomol 53(2) 322-323, PL.
Apr 1960 421 J822
Phenococcus, Pineapples.

6994-68
A STUDY OF MEALYBUG POPULATIONS (DYSMICOCCUS BREVIPES (CKL.)) IN AN ANT-FREE FIELD.
W Carter
J Econ Entomol 53(2) 296-299, PL.
Apr 1960 421 J822
Formicidae, Mealybug wilt, Pineapples, Sampling (statistics).

6995-68
EUROPEAN CORN BORER POPULATIONS IN RELATION TO THE ESTIMATION OF CROP LOSS.
H C Chiang F G Holdaway T A Brinoley C R Neiswander
J Econ Entomol 53(4) 517-522, BIBL., TABS.
Aug 1960 421 J822
Corn, Crop losses, Pyrausta.

6996-68
EVALUATION OF COMMONLY USED INSECTICIDES FOR THE CONTROL OF PEACB CURL APHID, ANURAPBIS HELICBRYSI KALT.
A N Chowdhuri
Indian J Entomol 28 (3), 405-407
Sep 1966 420 IN23
Anuraphis helichrysi, Chemical control (insects), Insecticides, Peaches.

6997-68
SOIL INJECTION AS A MEANS OF APPLYING SYSTEMIC ACARICIDES TO FRUIT TREES.
M L Cleveland
J Econ Entomol 53(1) 144-146, TABS.
Feb 1960 421 J822
Acaracides, Apple trees, Chipman R-6199, Demeton, Fruit trees, Panonychus, Phorate, Soils, Tetranychus.

6998-68
FIELD CONTROL OF COTTON MITES WITH ARAMITE AERIAL SPRAY IN CALIFORNIA.
J P Corkins N W Hazel
J Econ Entomol 53(2) 203-205, BIBL., TABS.
Apr 1960 421 J822
Aerial spraying, Aramite, California, Cotton, Mites, Mobil GFD 1442.

6999-68
GREENEUG CONTROL WITH SYSTEMIC INSECTICIDES AS INFLUENCED BY FERTILIZER APPLICATIONS.
N E Daniels
J Econ Entomol 53(2) 278-279, BIBL.
Apr 1960 421 J822
Cotton, Demeton, Disulfoton.

7000-68
MORTALITY FACTORS FOR THE VETCH BRUCHID, BRUCHUS BRACHIALIS.
E A Dickason
J Econ Entomol 53(4) 555-558, BIBL., TABS.
Aug 1960 421 J822
Bruchus, Eggs, Hairy vetch, Larvae, Mortality, Vetch.

7001-68
FIELD TESTING OF INSECTICIDES FOR CONTROL OF THE NANTUCKET PINE MOTH, RHYACIONIA FRUSTRANA, AND THE EUROPEAN PINE SHOOT MOTH, R. BUOLIANA.
D E Donley
J Econ Entomol 53(3) 365-367, BIBL.
Jun 1960 421 J822
Azinphosmethyl, Carbophenothion, Dioxathion, DDT Malathion, Methyl parathion, Pinus, Rhyacionia.

7002-68
WHITE-PINE SHOOT BORER (EUCOSMA GLORIOLA HEINRICH).
A T Drooz
J Econ Entomol 53(2) 248-251, BIBL., PL.
Apr 1960 421 J822
Parasitic insects, Pinus, White-pine shoot borer.

7003-68
EVALUATION OF CHEMICALS FOR CONTROL OF A SPIDER MITE COMPLEX ON CBERRY AND PEACB.
F E Ellertson
J Econ Entomol 53(4) 522-526, BIBL., TABS.
Aug 1960 421 J822
Azinphosmethyl, Carbophenothion, Chemical control (pests), Cherries, Diazinon, Dicofol, Malathion, P-chlorophenyl phenyl sulfone, Parathion, Peaches, Sulphenone, Tetradifon, Tetranychus.

7004-68
EVALUATION OF INSECTICIDES FOR CONTROL OF THE FULLER ROSE BEETLE ON CITRUS IN CALIFORNIA.
H S Elmer
J Econ Entomol 53(1) 164-165, BIBL.
Feb 1960 421 J822
Azinphosmethyl, Citrus, Dieldrin, Insecticides, Pantomorus, Residues.

7005-68
THE EFFECT OF PHORATE APPLIED TO SEED ON THE GROWTB, DEVELOPMENT AND INSECTS ATTACKING GRAIN SORGHUM.
R T Everly R C Pickett
J Econ Entomol 53(1) 154-160, BIBL. 159-160, TABS.
Feb 1960 421 J822
Aphididae, Insects, Phorate, Plant growth inhibitors, Seed germination, Seeds, Sorghum, Thiram.

7006-68
THE BEAN LEAF SKELETONIZER, AUTOPLUSIA EGENA, AND ITS CONTROL ON BUSH SNAP BEANS IN THE EVERGLADES.
W G Genung
J Econ Entomol 53(4) 566-569, BIBL.
Aug 1960 421 J822
Apanteles, Bacillus thuringiensis, Beans, Copidosoma, Dieldrin, Endosulfan, Everglades, Kepone, Leaves, Meteorus, Mevinphos,
Octachloro-3a,4,7a-tetrahydro-4,7-methanophthalan,1,3,4,5,, Perthane, SD-4402, Toxaphene,

7007-68
ARTIFICIAL MEDIUM FOR REARING SOME LEPIDOPTEROUS CORN INSECTS.
B W George E S Raun D C Peters C Mendoza
J Econ Entomol 53(2) 318-319, BIBL.
Apr 1960 421 J822
Corn, Culture media, Heliothis zea, Insect breeding, Lepidoptera.

7008-68
THE FATE OF PHORATE IN SOILS.
L W Getzin R K Chapman
J Econ Entomol 53(1) 47-51, BIBL., TABS.
Feb 1960 421 J822
Cabbage, Insects, Peas, Phorate, Potatoes, Soils.

7009-68
PROBLEMS IN TBE CONTROL OF MINT INSECTS.
G E Gould
J Econ Entomol 53(4) 526-531, BIBL., PL.
Aug 1960 421 J822
Dieldrin, DDT , Heptachlor, Indiana, Longitarsus, Raphoplusia.

7010-68
FIELD EVALUATION OF SEVIN AS AN INSECTICIDE FOR PESTS OF VEGETABIES IN NEW JERSEY.
P Granett J P Reed
J Econ Entomol 53(3) 388-395, BIBL. 394-395, TABS.
Jun 1960 421 J822
Heliothis zea, New jersey, Phyllotreta, Vegetables.

7011-68
CONTROL OF THE WOOLLY APPLE APHID ON ROOTS OF APPLE NURSERY STOCK.
E O Hamstead E Gould
J Econ Entomol 53(2) 217-220, BIBL., PL.
Apr 1960 421 J822
Aldrin, Apples, Benzine hexachloride, Eriosoma, Lindane, Roots.

7012-68
EFFECT OF RONNEL UPON THE ADULT RICE WEEVIL, SITOPHILUS ORYZA.
P K Harein
J Econ Entomol 53(3) 372-375, BIBL. 374-375, TABS.
Jun 1960 421 J822
Grain, Ronnel, Sitophilus, Wheat.

7013-68
HYPERODES HUMILIS, A NEW PEST OF SWEET CORN IN TBE EVERGLADES, AND ITS CONTROL.
E D Harris Jr
J Econ Entomol 53(2) 251-257, BIBL., PL.
Apr 1960 421 J822
Azinphosmethyl, DDT , Everglades, Sweetcorn.

7014-68
EXPERIMENTS FOR THE CONTROL OF SAP BEETLES IN SWEET CORN GROWN FOR PROCESSING.
F P Harrison
J Econ Entomol 53(1) 174-175, BIBL.
Feb 1960 421 J822
Carpophilus, Corn, Diazinon, DDT , Malathion, Parathion.

7015-68
THE EFFECTS OF DDT AND MALATHION UPON FOREST SOIL MICROARTHROPODS.
R C Hartenstein
J Econ Entomol 53(3) 357-362, BIBL.
Jun 1960 421 J822
DDT , Forest soils, Malathion, Microarthropods, Pinus.

7016-68
EFFECTS OF AN AERIAL DDT SPRAY ON AQUATIC INSECTS IN CONNECTICUT.
S W Hitchcock
J Econ Entomol 53(4) 608-611, BIBL.
Aug 1960 421 J822
Aquatic insects, Connecticut, DDT , Spraying, Wildlife.

7017-68
EFFECTIVENESS OF INSECTICIDES AGAINST THE EUROPEAN CORN BORER AND GREEN PEACH APHID ON PEPPERS.
R N Hofmaster D F Bray L P Ditman
J Econ Entomol 53(4) 624-626, BIBL.
Aug 1960 421 J822
Aphididae, Azinphosmethyl, Bacillus thuringiensis, Beans, Carbaryl, Corn, DDT , Phosphamidon, Potatoes, Tomatoes.

7018-68
INFLUENCE OF PLANT AGE ON THE SURVIVAL OF ALFALFA VARIETIES DIFFERING IN RESISTANCE TO TBE SPOTTED ALFALFA APHID.
W L Howe G R Pesho
J Econ Entomol 53(1) 142-144, BIBL., TABS.
Feb 1960 421 J822
Alfalfa, Seedlings, Therioaphis.

7019-68
SPOTTED ALFALFA APHID RESISTANCE IN MATURE GROWTH OF ALFALFA VARIETIES.
W L Howe G R Pesho
J Econ Entomol 53(2) 234-238, BIBL., PL.
Apr 1960 421 J822
Alfalfa, Insecticide resistant insects, Plant injuries, Plant regulators, Therioaphis.

7020-68
RESIDUES OF SEVIN AND 1-NAPHTHOL ON FORAGE FROM AERIAL APPLICATIONS OF SEVIN IN OIL.
E W Buddleston G G Gyrisco
J Econ Entomol 53(3) 484
Jun 1960 421 J822
Aerial spraying, Carbaryl, Naphthol,1-, Porthetria, Residues.

7021-68
SURVEYS FOR NOSEMA DISEASE OF HONEY BEES IN CALIFORNIA.
E R Jaycox
J Econ Entomol 53(1) 95-98, BIBL., TABS., PL.
Feb 1960 421 J822
Apis mellifera, California, Honey, Nosema disease, Surveys.

7022-68
THE EFFECT OF COPPER COMPOUNDS ON CONTROL OF CITRUS RUST MITE WITH ZINEB.
R B Johnson
J Econ Entomol 53(3) 395-397, BIBL., TABS.
Jun 1960 421 J822
Citrus, Copper, Parathion, Phyllocoptruta, Zineb.

7023-68
OCCURRENCE OF EUBLEMMA SILICULA SWINHOE AS PEST OF BAJRA IN DELHI.
M G Jotwani K Dang P N Saxena W R Young
Indian J Entomol 28 (3), 407-408
Sep 1966 420 IN23
Eublemma silicula, Insect pests, Pearlmillet.

7024-68
CONTROL OF PEAR BORER AND AMERICAN PLUM BORER IN APPLE TREES.
L P Kelsey L A Stearns
J Econ Entomol 53(2) 276-278, BIBL.
Apr 1960 421 J822
Apples, Dormant oil, Gamtox, Isotex, Paraflow, Parathion.

7025-68
LABORATORY STUDIES OF THREE-LINED POTATO BEETLE AND CONTROL WITH VARIOUS INSECTICIDES.
T W Kerr C E Olney
J Econ Entomol 53(3) 480-481, BIBL.
Jun 1960 421 J822
Dieldrin, DDT , Epitrix, Lema, Potatoes.

7026-68
TOXICITY OF CELLULOSE ACETATE SHEETING TO LEGUMINOUS PLANTS.
R W Kieckhefer J T Medler
J Econ Entomol 53(3) 484
Jun 1960 421 J822
Cellulose acetates, Legumes, Sheets, Toxicology.

7027-68
THE EFFECT OF SEED TREATMENTS WITH PBORATE AND OTHER SYSTEMIC INSECTICIDES ON THE GERMINATION OF WHEAT.
R E Kirk M C Wilson
J Econ Entomol 53(4) 575-577, BIBL., TABS.
Aug 1960 421 J822
Disulfoton, Phorate, Seed germination, Seed treatment, SD-3562, Wheat.

7028-68
INCREASE OF EUROPEAN CORN BORERS FOLLOWING SOIL APPLICATION OF LARGE AMOUNTS OF DIELDRIN.
W H Luckmann
J Econ Entomol 53(4) 582-584, BIBL., TABS.
Aug 1960 421 J822
Corn, Dieldrin, Pyrausta, Soil fumigation.

7029-68
EFFECTS OF NECTARILESS COTTONS ON POPULATIONS OF THREE LEPIDOPTEROUS INSECTS.
M J Lukefahr C Rhyne
J Econ Entomol 53(2) 242-244, BIBL.
Apr 1960 421 J822
Cotton, Lepidoptera, Pectinophora gossypiella.

7030-68
CONTROL OF THE GRAPE MEALYBUG ON APRICOTS.
B F Madsen L B McNelly
J Econ Entomol 53(3) 354-357, BIBL., PL.
Jun 1960 421 J822
Apricots, Diazinon, Parathion, Pseudococcus.

7031-68
DROSOPHILA BREEDING IN REFUSE FROM TOMATO CANNERIES.
B C Mason T J Benneberry
J Econ Entomol 53(1) 8-11, BIBL., PL.
Feb 1960 421 J822
Breeding, Canneries, Drosophila, Drosophila melanogaster, Refuse disposal, Tomatoes.

7032-68
REACTION OF DROSOPBILA TO DIFFERENT VARIETIES OF TOMATOES.
B C Mason T J Henneberry R Lehr
J Econ Entomol 53(2) 337-339, BIBL., PL.
Jun 1960 421 J822
Cracking process, Drosophila, Drosophila melanogaster, Tomatoes.

7033-68
THE EFFECT OF LYGUS BUG CONTROL ON TBE YIELD OF LIMA BEANS.
F L McEwen G E R Hervey
J Econ Entomol 53(4) 513-516, BIBL., TABS., PL.
Aug 1960 421 J822
DDT , Lima beans, Lygus, Mevinphos, Parathion.

7034-68
NATURAL FACTORS CONTROL THE PINE TORTOISE SCALE IN THE NORTHEAST.
T McIntyre
J Econ Entomol 53(2) 325, BIBL.
Apr 1960 421 J822
Pinus, Toumeyella.

7035-68
O-ETBYL S-2(ETHYLTHIO)-ETHYL ALKYLPHOSPHONOTHIOATES AS SYSTEMIC INSECTICIDES.
R L Metcalf T R Fukuto
J Econ Entomol 53(1) 127-130, BIBL.
Feb 1960 421 J822
Cotton, Insecticides, Insects, Toxicology.

7036-68
COTTON INSECTS IN NICARAGUA.
F D Miner
J Econ Entomol 53(2) 291-296, BIBL., TABS.
Apr 1960 421 J822
Anthonomus grandis, Cotton, Nicaragua.

7037-68
WATER TENSIONS IN PLANTS, AN ENTOMOLOGICAL APPROACB.
T E Mittler
Entomol Soc Amer Ann 60 (5), 1074-1076
Sep 1967 420 EN82
Insect pests, Plants, Tension, Virus diseases (plants), Water consumptive use.
Abstract included.

7038-68
THIODAN, A PROMISING CHEMICAL FCR CONTROL OF THE LESSER PEACB TREE BORER.
D B Moore
J Econ Entomol 53(2) 321-322, BIBL.
Apr 1960 421 J822
Apricots, Endosulfan, Synanthedon pictipes.

7039-68
CONTROL OF ROOT MAGGOTS IN SWEDE TURNIPS IN NEWFOUNDLAND WITB BEPTACBLOR AND ALDRIN AND THE EFFECT ON PARASITES AND OVERWINTERING PUPAE.
R F Morris
J Econ Entomol 53(1) 65-67, BIBL., TABS.
Feb 1960 421 J822
Aldrin, Beptachlor, Bibernation, Maggots, Parasites, Pupae, Roots, Swede turnips.

7040-68
CITRUS RED MITES RESISTANT TO DEMETON AND OVEX AND TBEIR RESPONSE TO TEDION AND KELTHANE.
F Munger J E Gilmore A W Cressman
J Econ Entomol 53(3) 384-388, BIBL., TABS., PL.
Jun 1960 421 J822
Demeton, Dicofol, Lemons, Ovex, Panonychus, Tetradifon.

7041-68
EFFECT OF CULM SOLIDNESS ON TBE SURVIVAL OF THE WBEAT STEM SAWFLY.
L E O Keeffe J A Callenbach K L Lebsock
J Econ Entomol 53(2) 244-246, BIBL., TABS.
Apr 1960 421 J822
Culm, Insect survival, Larvae, Wheat.

7042-68
INCREASED TOLERANCE OF THE BOLL WEEVIL AND COTTON FLEAHOPPER TO SOME CBLORINATED BYDROCARBON INSECTICIDES IN CENTRAL TEXAS IN 1958.
C R Parencia Jr C B Cowan Jr
J Econ Entomol 53(1) 52-56, BIBL.
Feb 1960 421 J822
Anthonomus grandis, Azinphosmethyl, Carbaryl, Chlorine, Cotton, Dieldrin, DDT , Malathion, Psallus seriatus, Toxaphene.

7043-68
STARVATION TESTS WITB LARVAE OF THE CINNABAR MOTB.
B L Parker
J Econ Entomol 53(3) 472-473, BIBL.
Jun 1960 421 J822
Artichokes, Asters, Bellis, Hops, Larvae, Lonicera, Strawberries, Tagetes, Tyria.

7044-68
INTER-RELATIONSHIP BETWEEN WHITEFLY (BEMISIA TABACI GIEN) POPULATION AND THE INCIDENCE OF LEAF CURL IN BIDI TOBACCO (NICOTIANA TABACUM L) IN RELATION TO DIFFERENT PLANTING DATES.
V C Patel H K Patel
Indian J Entomol 28 (3), 339-344
Sep 1966 420 IN23
Bemisia tabaci, Cultural control (insects), Cultural control (plant diseases), Leaf curl (tobacco), Planting date, Tobacco.

7045-68
SUSCEPTIBILITY OF CERTAIN STAGES OF TBE RICE WEEVIL TO A METBALLYL CHLORIDE FUMIGANT FORMULATION IN WBEAT OF VARIOUS MOISTURES.
J R Pedersen
J Econ Entomol 53(2) 288-291, BIBL. 290-291, TABS.
Apr 1960 421 J822
Carbon tetrachloride, Fumigants, Methallyl chloride, Wheat.

7046-68
A BIOTYPE OF THE SPOTTED ALFALFA APHID ON ALFALFA.
G R Pesho F V Lieberman W F Lehman
J Econ Entomol 53(1) 146-150, BIBL., TABS.
Feb 1960 421 J822
Alfalfa, ENT A, Plant disease resistance, Terioaphis.

7047-68
EFFECTS OF LOW TEMPERATURE ON TBE SURVIVAL OF THE ALFALFA WEEVIL FROM ALBERTA AND UTAB.
L K Peterson
J Econ Entomol 53(4) 570-572, BIBL., TABS.
Aug 1960 421 J822
Alberta, Alfalfa, Bypera, Mortality, Temperature, Utah.

7048-68
EFFECT OF LIME APPLICATIONS TO SOIL ON JAPANESE BEETLE LARVAL POPULATIONS.
J B Polivka
J Econ Entomol 53(3) 476-477, BIBL.
Jun 1960 421 J822
Lime, Popillia, Soils.

7049-68
THE EFFECT OF GRAIN MOISTURE UPON DEVELOPMENT OF THE RICE WEEVIL IN GREEN CORN.
J D Powell E H Floyd
J Econ Entomol 53(3) 456-458, BIBL.
Jun 1960 421 J822
Corn, Eggs, Bumidity, Oviposition, Sitophilus.

7050-68
INCIDENCE OF PREDATORS AND FEASIBILITY OF TBEIR CONTROL THROUGB HAND PICKING IN LAC CULTIVATION ON BUSB TYPES OF BOSTS.
B K Purkayastha N Majumdar A Bhattacharya
Indian J Entomol 28 (3), 394-396
Sep 1966 420 IN23
Cultural control (insects), Eublemma amabilis, Holcocera pulverea, Lac, Moghania macrophylla.

7051-68
OBSERVATIONS ON SOYBEAN INSECTS IN MARYLAND.
R B Ratcliffe T L Bissell W E Bickley
J Econ Entomol 53(1) 131-133, 14 REFS.
Feb 1960 421 J822
DDT , Heliothis zea, Malathion, Maryland, Phorate, Soybeans, Tetranychus, Thrips.

7052-68
CBLOROPLAST NUMBER IN LEAVES OF NORMAL WBEAT PLANTS AND TBOSE INFESTED WITH BESSIAN FLY OR TREATED WITH MALEIC HYDRAZIDE.
R J Robinson B S Miller B L Mitchell B C Mussman
J A Johnson E T Jones
J Econ Entomol 53(4) 560-562, BIBL.
Aug 1960 421 J822
Chloroplasts, Leaves, Maleic hydrazide, Phytophaga, Wheat.

7053-68
EFFECTS OF SOIL INSECTICIDES ON APPLE TREES AND RESULTING EFFECT ON MITE NUTRITION.
J G Rodriguez H H Chen W T Smith Jr
J Econ Entomol 53(4) 487-490, BIBL., TABS.
Aug 1960 421 J822
Apples, Insect nutrition, Insecticides, Mites, Soils.

7054-68
EFFECTS OF SOIL INSECTICIDES AND ABSORBENTS ON PLANT SUGARS AND RESULTING EFFECT ON MITE NUTRITION.
J G Rodriguez D E Maynard W T Smith Jr
J Econ Entomol 53(4) 491-495, BIBL
Aug 1960 421 J822
Beans, DDT , Insect nutrition, Insecticides, Mites, Soils, Soybeans, Sugars, Tetranychus.

7055-68
EFFECTIVENESS OF MIXTURES OF ACRYLONITRILE AND CARBON TETRACHLORIDE AGAINST THREE PESTS OF STORED CORN.
R F Ruppel G Bravo W H Batheway
J Econ Entomol 53(2) 238-242, BIBL.
Apr 1960 421 J822
Acrylonitrile, Calandra, Carbon tetrachloride, Corn, Sitophilus, Sitotroga, Stored products, Tribolium.

7056-68
THE INFLUENCE OF SEASONAL DDT APPLICATIONS UPON ARTHROPOD POPULATIONS IN JACK PINE STANDS.
V L Saplala
Diss Abstr Sect B 27 (12,PT.1), 4609B
Jun 1967 Z5055.U49D53
Arthropoda, DDT , Pinus banksiana.

7057-68
DIURNAL EMERGENCE OF XYLEBORUS FERRUGINEUS (COLEOPTERA, SCOLYTIDAE) FROM CACAO TRUNKS IN ECUADOR AND COSTA RICA.
J L Saunders J K Knoke
Entomol Soc Amer Ann 60 (5), 1094-1096
Sep 1967 420 EN82
Cacao, Diurnal rhythm, Xyleborus ferrugineus.
Abstract included.

7058-68
DIAPAUSE AND SECONDARY PARASITES NULLIFY THE EFFECTIVENESS OF ROSE-APHID PARASITES IN RIVERSIDE, CALIFORNIA, 1957-1958.
E I Schlinger
J Econ Entomol 53(1) 151-154, BIBL.
Feb 1960 421 J822
Charips, Diapause, Parasitic insects.

7059-68
SYSTEMIC INSECTICIDES FOR CONTROL OF SCALES, LEAF MINERS, AND LACE BUGS.
J C Schread
J Econ Entomol 53(3) 406-408, BIBL., TABS.
Jun 1960 421 J822
Andromeda, Asterolecanium, Azalea, Buxus, Dimethoate, Disulfoton, Fenusa, Ilex, Mevinphos, Phenacaspis, Phorate, Phosphamidon, Rhododendron, Stephanitis.

7060-68
RESPONSE OF DIFFERENT STRAINS OF THE GREEN PEACH APHID TO MALATHION.
F B Shirck
J Econ Entomol 53(1) 84-88, BIBL., TABS., PL.
Feb 1960 421 J822
Aphididae, Broccoli, Malathion, Potatoes.

7061-68
A THREE-YEAR OVERWINTERING STUDY OF THE SPOTTED ALFALFA APHID.
R G Simpson C C Burkhardt
J Econ Entomol 53(2) 220-222, BIBL., TABS.
Apr 1960 421 J822
Alfalfa, Hibernation, Kansas, Surveys, Therioaphis.

7062-68
PLUM CURCULIO CONTROL EXPERIMENTS IN 1955-58.
O I Snapp
J Econ Entomol 53(3) 335-337, BIBL., TABS.
Jun 1960 421 J822
Azinphosmethyl, Carbaryl, Carbophenothion, Conotrachelus, Dieldrin, Parathion, Peaches, Perthane.

7063-68
SOIL TREATMENTS IN LIEU OF SPRAYING FOR PLUM CURCULIO CONTROL IN PEACH ORCHARDS.
O I Snapp
J Econ Entomol 53(3) 439-441, BIBL.
Jun 1960 421 J822
Chlordane, Endosulfan, Endrin, Heptachlor, Isodrin, Peaches, Soils, Spraying.

7064-68
CONTROL OF THE GRAPE LEAF FOLDER IN CALIFORNIA.
E M Stafford P L Jensen H Kido
J Econ Entomol 53(4) 531-534, BIBL., TABS.
Aug 1960 421 J822
Bayer 22408, Carbaryl, Desmia, Dicofol, Endrin, Grapes, Kepone, Lead arsenate, Methyl trithion, Naphthyl-N-methyl carbamate,1-, O,O-diethyl O-naphtalimidophosphorothioate, Parathion.

7065-68
EFFECTS OF DYLOX AND OTHER INSECTICIDES ON ENTOMOPHAGOUS INSECTS ATTACKING FIELD CROP PESTS IN CALIFORNIA.
V M Stern R Van Den Bosch H T Reynolds
J Econ Entomol 53(1) 67-72, BIBL., TABS.
Feb 1960 421 J822
California, DDT , Entomaphagous insects, Field crops, Heptachlor, Insecticide resistant insects, Parathion, Toxaphene, Trichlorfon.

7066-68
FIELD TESTS WITH VARIOUS INSECTICIDES FOR THE CONTROL OF LYGUS BUGS AND THE CORN EARWORM ON LIMA BEANS.
M W Stone F B Foley R E Campbell
J Econ Entomol 53(3) 397-403, BIBL., TABS.
Jun 1960 421 J822
Dieldrin, DDT , Endrin, Heliothis zea, Lima beans, Lygus, Toxaphene.

7067-68
SAMPLING ALFALFA SEED FOR CLOVER SEED CHALCID DAMAGE.
F E Strong
J Econ Entomol 53(4) 611-615, BIBL., TABS.
Aug 1960 421 J822
Alfalfa, Bruchophagus, Clover, Plant injuries.

7068-68
TOXICITY OF BHC TO LOBLOLLY PINE SEEDLINGS.
B C Thatcher
J Econ Entomol 53(1) 175-176, BIBL., PL.
Feb 1960 421 J822
Benzene hexachloride, Pinus taeda, Seedlings, Toxicology.

7069-68
CURRANT FRUIT WEEVIL, PSEUDANTHONOMUS VALIDUS, A PEST OF CULTIVATED HIGHBUSH BLUEBERRY.
W E Tomlinson Jr
J Econ Entomol 53(3) 474-475, BIBL., PL.
Jun 1960 421 J822
Blueberries, Dieldrin, Pseudanthonomus.

7070-68
LABORATORY STUDIES ON THE EFFECTIVENESS OF CHIPMAN R-6199 AGAINST SOME COTTON PESTS.
C B Tsao G T Bottger
J Econ Entomol 53(1) 103-106, BIBL., TABS.
Feb 1960 421 J822
Anthonomus grandis, Chipman R-6199, Cotton, DDT , Endrin, O,O-diethyl S(2-diethylamino)-ethyl phosphorothioate, Tetranychidae.

7071-68
EFFECT OF TEMPERATURE AND HUMIDITY ON THE FECUNDITY AND DEVELOPMENT OF CADRA CAUTELLA WLK. IN WHEAT.
S Tuli P B Mookherjee G C Sharma
Indian J Entomol 28 (3), 305-317 BEF
Sep 1966 420 IN23
Cadra cautella, Fertility, Humidity, Temperature, Wheat.

7072-68
BIOLOGY AND CONTROL OF THE APPLE SEED CHALCID IN NORTH CAROLINA.
G F Turnipseed
J Econ Entomol 53(1) 166, BIBL.
Feb 1960 421 J822
Biology, Carbaryl, Crabapples, Demeton, Dioxathion, DDT , Malathion, Phorate, Seedlings, Torymus.

7073-68
STUDIES ON THE HOST PREFERENCE OF THE ONION THRIPS, THRIPS TABACI LINDEMAN TO THE VARIETIES OF ONION.
S K Verma
Indian J Entomol 28 (3), 396-398
Sep 1966 420 IN23
Onions, Plant pest resistance, Thrips tabaci.

7074-68
CONTROL OF BOLL WEEVILS RESISTANT TO CHLORINATED HYDROCARBONS.
J K Walker Jr R L Hanna
J Econ Entomol 53(2) 228-231, BIHL.
Apr 1960 421 J822
Anthonomus grandis, Carbaryl, Cotton, DDT , Gothion, Hydrocarbons.

7075-68
YIELD AND QUALITY OF MUSBROOMS FROM HEDS TREATED WITH LINDANE.
C A Weigel G Gilpin
J Econ Entomol 53(4) 558-560, BIHL.
Aug 1960 421 J822
Bradysia, Lindane, Megaselia, Mushrooms.

7076-68
CONTROL OF THE TWO-SPOTTED SPIDER MITE ON BEANS WITB SYSTEMIC INSECTICIDES APPLIED IN THE SOIL.
J Wilcox A F Bowland
J Econ Entomol 53(2) 224-227, HIHL.
Apr 1960 421 J822
Disulfoton, Lima beans, Phorate, Tetranychus, Thrips.

7077-68
FOREST-INSECT SURVEYS IN THE CENTRAL ROCKY MOUNTAINS.
B B Wilford
J Econ Entomol 53(3) 458-462, PL.
Jun 1960 421 J822
Forest surveys, Forestry, Insects, Picea, Pinus, Rocky mountains.

7078-68
THE USE OF PHORATE TO CONTROL APBIDS AND THE HESSIAN FLY ON WINTER WHEAT.
M C Wilson B F Hodges R L Gallun R E Kirk
J Econ Entomol 53(2) 197-200, HIHL., TABS., PL.
Apr 1960 421 J822
Aphididae, Phorate, Wheat.

7079-68
BRIEF HISTORY OF APBID CONTROL ON POTATOES IN SOUTH FLORIDA, 1946-59.
D O Wolfenbarger
J Econ Entomol 53(3) 403-405, BIHL.
Jun 1960 421 J822
DDT , Endosulfan, Parathion, Potatoes, South florida, Toxaphene.

7080-68
FURTBER STUDIES ON CONTROL OF THE CLOVER ROOT HORER IN VIRGINIA.
A M Woodside
J Econ Entomol 53(3) 449-450, HIHL.
Jun 1960 421 J822
Aldrin, Benzene hexachloride, Chlordane, Beptachlor, Bylastinus, Red clover.

7081-68
TBE SUITABILITY OF TOBACCOS FOR THE GROWTH OF TBE CIGARETTE BEETLE, LASIODERMA SERRICORNE.
R T Yamamoto G Fraenkel
J Econ Entomol 53(3) 381-384, HIHL. 383-384, TABS.
Jun 1960 421 J822
Lasioderma, Nicotine, Tenebrio, Tobacco, Tribolium.

Nematodes

7082-68
A HACTERIAL INFECTION OF XIPBENEMA AMERICANUM.
R E Adams J J Eichenmuller
Phytopathology 53(7) 745
Jul 1963 464.8 P56
Xiphinema americanum.

7083-68
STALK SBREDDING AND PLOWING AS METBODS FOR CONTROLLING THE PINK BOLLWORM, PECTINOPBORA GOSSYPIELLA.
P L Adkisson L H Wilkes B J Cochran
J Econ Entomol 53(3) 436-439, HIBL., TABS.
Jun 1960 421 J822
Cotton, Larvae, Stalk shredding.

7084-68
A COMPARISON OF TBE TOXICITY OF INSECTICIDES FOR THE CONTROL OF CORN EARWORM ON SWEET CORN.
L D Anderson B T Reynolds
J Econ Entomol 53(1) 22-24, BIBL., PL.
Feb 1960 421 J822
Azinphosmethyl, Carbaryl, Diazinon, DDT , Endosulfan, Heptachlor, Isodrin, Sweetcorn, Toxicology, Trichlorion.

7085-68
BIOLOGY OF THE OAK TIMBERWORM, ARRBENODES MINUTUS.
W D Buchanan
J Econ Entomol 53(4) 510-513, PL.
Aug 1960 421 J822
Arrhenodes, Insect biology.

7086-68
DEVELOPMENT OF MELOIDOGYNE HAPLA AND M. INCOGNITA IN ALFALFA.
R A Chapman
Phytopathology 53(9) 1003-1005, BIBL., TABS.
Sep 1963 464.8 P56
Alfalfa, Meloidogyne.

7087-68
TBE INFLUENCE OF SELECTED NEMATODE SPECIES AND NUMBER OF CONSECUTIVE PLANTINGS OF CORN AND SORGBUM ON FORAGE PRODUCTION, SOIL, AND WATER USE EFFICIENCY.
R Chevres-roman
Diss Abstr Sect B 27 (12,PT.1), 4207B
Jun 1967 Z5055.U49D53
Corn, Crop yields, Plant composition, Plant nematodes, Planting, Soil chemistry, Sorghum, Water consumptive use.

7088-68
OBSERVATIONS ON TBE UTILIZATION OF THE BEXOSE MONOPBOSPBATE PATBWAY IN NEMATODE-INFECTED ROOTS OF TOMATO.
B E DeMott
Diss Abstr Sect B 27 (12,PT.1), 4257B
Jun 1967 Z5055.U49D53
Glucose, Bexose phosphates, Meloidogyne incognita acrita, Plant metabolism, Plant nematodes, Tomatoes.

7089-68
SWEETPOTATO VARIETAL REACTION TO SPECIES AND RACES OF ROOT-KNOT NEMATODES.
M J Giamalva W J Martin T P Bernandez
Phytopathology 53(10) 1187-1189, BIBL.
Oct 1963 464.8 P56
Meloidogyne, Plant nematode resistance, Sweetpotatoes.

7090-68
EVALUATION OF SEVERAL TECHNIQUES FOR SCREENING ALFALFA FOR RESISTANCE TO DITYLENCBUS DIPSACI.
G D Griffin
Plant Dis Rep 51 (8)0 651-654
Aug 1967 1.9 P69P
Alfalfa, Ditylenchus dipsaci, Plant nematode resistance.
Utah State University Agricultural Experiment Station cooperating.
Several techniques were studied to determine their reliability in a screening program for resistance of alfalfa to Ditylenchus dipsaci. methods used were0 inoculating swollen alfalfa seed with a water, or a 1 percent methyl cellulose suspension of nematodes inoculating alfalfa cotyledons with a one percent methyl cellulose suspension of nematodes and inoculating mature alfalfa plants at crown bud initiation with a water suspension of nematodes. inoculation was effective when inoculated seed was maintained on a greenhouse bench at 30-60 percent relative humidity, or in a controlled humidity chamber at 80-100 percent relative humidity. inoculation of mature plants was more effective, however and inoculated cotyledons were only effective when maintained in a controlled humidity chamber at 80-100(. all methods required very little plant handling, and plants could be grown indefinitely to be certain of their susceptibility or resistance. there was one advantage to inoculating alfalfa seed. fewer nematodes were used, and possible escapes could be re-inoculated in the cotyledon stage.

7091-68
BELICOTYLENCHUS TBORNEI N SP (NEMATODA, BOPLOLAIMINAE) FROM A TOMATO PLANT FIELD IN LUDHIANA, PUNJAB.
N K Gupta H K Chhabra
Panjab Univ Res Bull (N.S.) 17 (3/4), 323-325
Dec 1966 513 EA72
Helicotylenchus thornei, Boplolaiminae, Plant nematodes,

20 7092-68

Tomatoes.
Abstract included.

7092-68
ON TWO PLANT PARASITIC NEMATODES FROM A CAULIFLOWER FIELD IN THE PUNJAB.
N K Gupta J C Gupta
Panjab Univ Res Bull (N.S.) 17 (3/4), 223-226
Dec 1966 513 EA72
Cauliflower, Filenchus, Plant nematodes, Tylenchorhynchus, Tylenchus.
Abstract included.

7093-68
CRICONEMA LATERALE KHAN AND SIDDIQI, 1963 (NEMATODA, CRICONEMATIDAE), A PARASITE OF CITRUS PLANT IN THE PUNJAH.
N K Gupta J C Gupta
Panjab Univ Res Bull (N.S.) 17 (3/4), 219-220
Dec 1966 513 EA72
Citrus, Criconema laterale, Criconematidae, India, Plant nematodes.
Abstract included.

7094-68
ON A NEMATODE SPECIES OF THE GENUS HOPLOLAIMUS DADAY, 1905, FROM A CITRUS PLANT IN THE PUNJAH.
N K Gupta J C Gupta
Panjab Univ Res Bull (N.S.) 17 (3/4), 211-213
Dec 1966 513 EA72
Citrus, Hoplolaimus indicus, Plant nematodes.
Abstract included.

7095-68
STUDIES ON TWO PLANT NEMATODE SPECIES OF THE GENUS XIPHINEMA COBB, 1913.
N K Gupta J C Gupta
Panjab Univ Res Bull (N.S.) 17 (3/4), 207-210
Dec 1966 513 EA72
Citrus, Plant nematodes, Xiphinema basiri, Xiphinema indicum.
Abstract included.

7096-68
ON HELICOTYLENCHUS INDICUS SIDDIQI, 1963 (NEMATODA, HOPLOLAIMIDAE), A PHYTOPARASITIC NEMATODE IN THE PUNJAB.
N K Gupta J C Gupta
Panjab Univ Res Bull (N.S.), 17 (3/4), 221-222
Dec 1966 513 EA72
Citrus, Grasses, Helicotylenchus indicus, Hoplolaimidae, Parasitism, Plant nematodes.
Abstract included.

7097-68
ON LONGIDORUS BREVICAUDATUS (SCHUURMANS STEKHOVEN, 1951) THORNE, 1961, A NEMATODE PARASITE OF CITRUS PLANTS IN THE PUNJAH.
N K Gupta J C Gupta
Panjab Univ Res Bull (N.S.) 17 (3/4), 215-217
Dec 1966 513 EA72
Citrus, India, Longidorus brevicaudatus, Plant nematodes.
Abstract included.

7098-68
AN ATTEMPT TO EXTEND THE LONGEVITY OF THE BURROWING NEMATODE, RADOPHOLUS SIMILIS, WITH CITRUS ROOT EXUDATE.
R W Hanks A W Feldman
Plant Dis Rep 51 (8)0 675-677 REF
Aug 1967 1.9 P69P
Citrus, Longevity, Plant nematodes, Radopholus similis, Root excretions.
Radophilus similis was provided with a continuous supply of citrus root exudate in a root-free environment to determine whether the nematodes could adapt to the exudate as a source of food and thereby extend their longevity beyond 6 months in the absence of roots. root exudate was continuously supplied by grapefruit seedlings grown in large glass cylinders fitted with sintered glass discs which permitted root exudate to pass into the environment of the nematodes but prevented their contact with the roots. since no burrowing nematodes survived as long as 8 months, root exudate was of no significance for extending R similis longevity in the absence of contact with living roots.

7099-68
THE EFFECT OF CRICCNEMOIDES CURVATUM AND PRATYLENCHUS PENETRANS CN WOODY ORNAMENTALS.
C M Heald W R Jenkins
Phytopathology 53(7) 746
Jul 1963 464.8 P56
Criconemoides curvatum, Ornamental trees, Plant nematodes, Pratylenchus penetrans, Shrubs.

7100-68
THE POPULATION GENETICS OF THE POTATO CYST-NEMATODE, HETERODERA ROSTOCHIENSIS, MATHEMATICAL MODELS TO STIMULATE THE EFFECTS OF GROWING EELWORM-RESISTANT POTATOES BRED FROM SOLANUM TUBEROSUM SSP. ANDIGENA.
F G W Jones D M Parrott G J S Ross
Ann Appl Biol 60 (1), 151-171 REF
Aug 1967 442.8 AN72
Genetics, Heterodera rostochiensis, Plant nematode resistance, Plant nematodes, Population, Potatoes.

7101-68
POPULATION DYNAMICS AND FUMIGATION STUDIES OF CERTAIN NEMATODES ASSOCIATED WITH ROOTS OF WHEAT IN NEBRASKA.
E D Kerr
Plant Dis Rep 51 (8)0 637-641
Aug 1967 1.9 P69P
Dichloropropene, 1,3-, Plant nematodes, Population, Soil fumigation, Trichloronitromethane, Wheat.
Nine stylet-bearing nematode genera (Pratylenchus, Phratylenchus, Tylenchorhynchus, Aphelenchus, Aphelenchoides, Xiphinema, Ditylenchus, Helicotylenchus, and Tylenchus) and species of dorylaims and non-stylet-bearing nematodes were recovered from soil samples taken in fields of winter wheat in Nebraska. a substantial number of several genera survived summer fallowing in western Nebraska. the stylet bearing species were generally recovered from soil in highest numbers in March through June and in lowest numbers in December through February and July through August. during the spring months, numbers of Paratylenchus microdorus, Tylenchorhynchus brevidens, Tylenchus spp, and Aphelenchoides spp were significantly higher in plots of growing wheat than in fallow plots. fumigation of field soil, both for plot tests and a greenhouse pot test, with trichloronitromethane and 1,3-dichloropropene resulted in good nematode control and increased growth of wheat.

7102-68
A PLANT-PARASITIC NEMATODE OF THE GENUS ROTYLENCHULUS FOUND IN CALIFORNIA.
D E Konicek
Phytopathology 53(10) 1140
Oct 1963 464.8 P56
California, Nematodes, Rotylenchulus.

7103-68
MATERIALS DISCHARGED BY PLANT-PARASITIC NEMATODES.
R F Myers
Phytopathology 53(8) 884
Aug 1963 464.8 P56
Ditylenchus, Eserine, Meloidogyne, Nematodes, Nicotine, Parasitism, Pyridine.

7104-68
CONTROL OF ARMY CUTWORMS IN ALFALFA DURING 1959.
R E Pfadt
J Econ Entomol 53(2) 319-320, HIHL.
Apr 1960 421 J822
Alfalfa, Dieldrin, Dilan, Endrin, DDT .

7105-68
SMALL AMOUNTS OF INSECTICIDES EFFECTIVE IN CONTROLLING GRUBS OF THE JAPANESE BEETLE.
J H Polivka
J Econ Entomol 53(2) 320, HIHL.
Apr 1960 421 J822
Aldrin, Benzene hexachloride, Chlordane, Grubs, Heptachlor.

7106-68
DECLINE OF GRAPEFRUIT TREES IN RELATION TO CITRUS NEMATODE POPULATIONS AND TREE RECOVERY AFTER CHEMICAL TREATMENT.
H W Reynolds J H O Hannon
Phytopathology 53(9) 1011-1015, BIHL., PL.
Sep 1963 464.8 P56
Citrus, Grapefruit, Nematodes, 1,2-dibromo-3-chloropropane.

7107-68
PICKLEWORM CONTROL AND RESIDUE STUDIES WITH MALATHION AND PHOSDRIN.
J E Roberts L E Anderson
J Econ Entomol 53(3) 482-483, BIHL.
Jun 1960 421 J822
Cucumbers, Malathion, Mevinphos, Residues.

7108-68
LESION NEMATODE INJURY TO CARROT.
R A Rohde
Phytopathology 53(8) 886-887
Aug 1963 464.8 P56
Carrots, Nematodes, Pratylenchus.

7109-68
NEMATODE-INDUCED CALLUS ON CARROT DISCS GROWN IN VITRO.
R Sandstedt M L Schuster
Phytopathology 53(11) 1309-1312, BIBL., PL.
Nov 1963 464.8 P56
Callus (plants), Carrots, Meloidogyne, Nematodes.

7110-68
OBSERVATIONS ON PERIODICITY OF HATCHING OF EGGS OF THE POTATO CYST-NEMATODE, HETERODERA ROSTOCHIENSIS WOLL.
A M Shepherd P M Cox
Ann Appl Biol 60 (1), 143-150 REF
Aug 1967 442.8 AN72
Heterodera rostochiensis, Plant nematodes, Potatoes.

7111-68
EXPERIMENTS ON CONTROL OF THE SUGAR-BEET WIREWORM IN SOUTHERN CALIFORNIA BEAN FIELDS.
M W Stone L D Anderson
J Econ Entomol 53(1) 176-177, BIBL.
Feb 1960 421 J822
Aldrin, Chlordane, Dieldrin, DDT , Endrin, Heptachlor, Limonius californicus, Sugar beets.

7112-68
INFLUENCE OF SOIL AND MOISTURE ON THE BEET WEBWORM, LOXOSTEGE STICTICALIS, AND ITS PARASITES.
G E Swailes
J Econ Entomol 53(4) 585-586, BIBL.
Aug 1960 421 J822
Beets, Loxostege, Soil moisture, Soils.

7113-68
EFFECT OF ROOT EXTRACT OF ASPARAGUS RACEMOSUS AND TAGETES ERECTA ON HATCHING OF EGGS OF MELOIDOGYNE JAVANICA AND MELOIDOGYNE ARENARIA.
G Swarup R D Sharma
Indian J Exp Biol 05 (1), 59
Jan 1967 442.8 IN2
Asparagus racemosus, Eggs, Mercury chloride, Nemaphos, Plant nematodes, Tagetes erecta.

7114-68
THE HISTOLOGICAL RELATIONSHIP OF RESISTANCE TO THE CITRUS NEMATODE IN CERTAIN CITRUS ROOTSTOCKS.
S D Van Gundy J D Kirkpatrick
Phytopathology 53(8) 892
Aug 1963 464.8 P56
Citrus, Histology, Larvae, Nematodes, Plant disease resistance, Roots.

7115-68
BIOLOGICAL STUDIES OF A NEW SPECIES OF ANGUINA (NEMATODA0 TYLENCHIDAE) PARASITIC ON PLANTAGO ARISTATA MICHX.
O F Vargus-gonzales
Diss Abstr Sect B 27 (12,PT.1), 4211B-4212B
Jun 1967 Z5055.U49D53
Anguina, Microbiology, Plant galls, Plant nematodes, Plantago aristata, Tylenchidae.

7116-68
THE BIOLOGY OF THE PINE WEBWORM, TETRALOPHA ROBUSTELLA, IN WISCONSIN.
D P Wallesz D M Benjamin
J Econ Entomol 53(4) 587-589, BIBL., PL.
Aug 1960 421 J822
Biology, Pinus, Tetralopha, Wisconsin.

7117-68
AERIAL FOREST SPRAYING AGAINST SPRUCE BUDWORM- A PROBLEM OF MUTUAL INTEREST IN CANADA AND THE UNITED STATES.
F E Webb
J Econ Entomol 53(4) 631-633
Aug 1960 421 J822
Aerial spraying, Choristoneura, DDT , Picea.

7118-68
SALT-MARSH CATERPILLAR CONTROL ON COTTON IN ARIZONA.
G P Wene D M Tuttle L W Sheets
J Econ Entomol 53(1) 78-80, BIBL., TABS.
Feb 1960 421 J822
Arizona, Carbaryl, Cotton, Diazinon, Dilan, DDT , Endrin, Estigmene acrea, Malathion, Methyl parathion, Parathion, Sodium fluosilicate, Toxaphene, Trichlorion.

Weeds

7119-68
DARKNESS AND THE ACTIVITY OF DIQUAT AND PARAQUAT ON TOMATO, BROAD BEAN AND SUGAR BEET.
R C Brian
Ann Appl Biol 60 (1), 77-85 REF
Aug 1967 442.8 AN72
Diquat, Herbicides, Paraquat, Sugar beets, Tomatoes.

7120-68
INFLUENCE OF TILLAGE, ROW SPACING, AND ATRAZINE ON SORGHUM AND WEED YIELDS FROM NONIRRIGATED SORGHUM ACROSS NEBRASKA.
O C Burnside G A Wicks C R Fenster
Weeds 12(3) 211-215
Jul 1964 79.8 W41
Atrazine, Planting, Sorghum, Tillage, Weed control.

7121-68
THE FIGHT AGAINST WEEDS.
D Campbell
Agr Chem 22 (9), 49-50
Sep 1967 381 AG8
Chemical control (weeds), D, 2,4-, Weeds.

7122-68
SCIENCE AND EDUCATION A NEW AWARENESS.
O A Freeman
Weeds 12(3)163-166
Jul 1964 79.8 W41
Agricultural administration, Agricultural education, Agricultural research, Pesticide residues, Weeds.

7123-68
HERBICIDAL ACTIVITY OF VAPORS OF 4-AMINO-3,5,6-TRICHLOROPICOLINIC ACID.
W A Gentner
Weeds 12(3) 239-240
Jul 1964 79.8 W41
Amino-3,5,6-trichloropicinolinic acid, 4-, Biological assay, Kidney beans, Vapors.

7124-68
RESPONSE OF SELECTED AND RANDOM PLANTINGS OF JOHNSONGRASS (SORGHUM HALEPENSE) TO DALAPON.
K C Hamilton B Tucker
Weeds 12(3) 220-222
Jul 1964 79.8 W41
Dalapon, Dichloropropionic acid, 2,2-, Foliar application, Sorghum.

7125-68
PARAQUAT FOR SELECTIVE CONTROL OF RANGE WEEDS.
B L Kay
Weeds 12(3) 192-194
Jul 1964 79.8 W41
California, Clover, Dimetyhl-4,4 -dipyridylium, 1,1;-, Elymus, Festuca, Grasses, Hordeum, Lolium, Paraquat, Plant injuries, Ranges, Vetch, Weeds.

7126-68
THE MODE OF ACTION OF DIPHENAMID (N, N-DIMETHYL 2, 2-DIPHENYLACETAMIDE) IN PLANTS.
C D Kesner
Diss Abstr Sect B 27 (12,PT.1), 4203B
Jun 1967 Z5055.U49D53
Aspergillus candidus, Diphenamid, Diphenylacetamide, 2,2-, Grasses, Metabolites, Plant metabolism, Soil fungi, Tomatoes, Trichoderma viride.

7127-68
A STUDY OF FACTORS INFLUENCING THE EFFECTIVENESS OF DIQUAT (101 -ETHYLENE-202 -DIPYRIDYLIUM DIBROMIDE) FOR POTATO VINE KILLING.
S Mahadeva
Diss Abstr Sect B 27 (12,PT.1), 4204B
Jun 1967 Z5055.U49D53
Crop yields, Diquat., Herbicides, Humidity, Light, Pesticide application, Potatoes, Temperature.

20 7128-68

7128-68
PLANT EXTRACTS, RESIDUES, AND SCIL MINERALS IN RELATION TO COMPETITION OF QUACKGRASS (AGROPYRON REPENS) WITH OATS AND ALFALFA.
J H Ohman T Kommedahl
Weeds 12(3) 222-231
Jul 1964 79.8 W41
Agropyron, Alfalfa, Nitrogen, Oats, Plant extracts, Plant residues, Poisonous plants, Soil extracts.

7129-68
CHLOROPHYLL FORMATION IN EUGLENA : A TEST FOR HERBICIDES.
C A Price M G Estrada
Weeds 12(3) 234-235
Jul 1964 79.8 W41
Amitrole, Biological assay, Chlorophylls, Chloroplasts, Ethidnine, Euglena.

7130-68
CHARACTERISTICS AND CONTROL OF SWAINSONPEA.
W C Robocker A D Kerr V F Bruns
Weeds 12(3) 189-191
Jul 1964 79.8 W41
Swainsonia, T, 2,4,5-, TBA, 2,3,6-, Western United States, 2-(2,4,5-trichlorophenoxy) propionic acid, 2,4-D.

7131-68
WEED SCIENCE - REVOLUTION IN AGRICULTURAL TECHNOLOGY.
W C Shaw
Weeds 12(3) 153-162
Jul 1964 79.8 W41
Agricultural outlook, Agricultural production economics, Agricultural productivity, Chemical control (weeds), Herbicides, Weeds.

7132-68
AN EVALUATION OF ATRAZINE, SIMAZINE, MONURON AND DIURON ON TEN HAWAIIAN SUGAR CANE PLANTATIONS.
K A Sund
Weeds 12(3) 215-219
Jul 1964 79.8 W41
Atrazine,
Chloro-4,6-bis(ethylamino)-6-isoprophylamino-s-triazine, 2-,
Diuron, Hawaii, Monuron, Simazine, Sugarcane.

Other Pests

7133-68
LEPTOSPIRES ISOLATED FROM NUTRIA.
Amer Vet Med Ass J 142(2) 146
15 Jan 1963 41.8 AM3
Leptospira, Mycocastor, Nutria.

7134-68
LEUCODERMIA-LIKE DISEASE IN THE CULTURE OF GIANT AFRICAN SNAIL ACHATINA FULICA BOWDICH.
P D Srivastava
Indian J Entomol 28 (3), 412-413
Sep 1966 420 IN23
Achatina fulica, Diseases, Leucodermia, Snails.

30 LIVESTOCK PROTECTION

7135-68
CALCIUM REQUIREMENTS OF TURKEY BREEDER HENS.
S L Balloun D L Miller
Poultry Sci 43(2) 378-381
Mar 1964 47.8 AM33P
Animal nutrition, Calcium, Egg production, Turkey eggs, Turkeys.

7136-68
PHYSIOLOGICAL AND PHARMACOLOGICAL FACTORS WHICH INFLUENCE THE INCIDENCE OF ACUTE PULMONARY ALTERATIONS FOLLOWING VAGOTOMY IN THE DOMESTIC COCK.
R E Burger M R Fedde
Poultry Sci 43(2) 384-393
Mar 1964 47.8 AM33P
Cocks, Pentobarbital sodium, Phenoxybenzamine, Pulmonary edema, Reserpine, Vagotomy.

7137-68
INFLUENCE OF DIETARY ZINC, CALCIUM AND VITAMIN D FOR HENS ON ZINC CONTENT OF TISSUES AND EGGS AND ON BONE COMPOSITION.
E W Kienholz M L Sunde W G Hoekstra
Poultry Sci 43(3) 667-675
May 1964 47.8 AM33P
Bones, Calcium, Chickens, Feed additives, Tissues, Vitamin D, Zinc.

7138-68
THE INCIDENCE OF SPONTANEOUS PATHOLOGIC CHANGES IN AORTAS OF GROWING TURKEYS.
B E McDonald H R Bird J J Lalich
Poultry Sci 43(2) 341-352
Mar 1964 47.8 AM33P
Aneurysms, Aorta, Sex, Turkeys.

7139-68
ZINC AVAILABILITY IN THE CHICK AS AFFECTED BY PHYTATE, CALCIUM AND ETHYLENEDIAMINETETRAACETATE.
B L O Dell J M Yohe J E Savage
Poultry Sci 43(2) 415-461
Mar 1964 47.8 AM33P
Calcium, Chicks, Phytates, Zinc.

7140-68
POTENTIATION OF CHLORTETRACYCLINE IN LAYING CHICKENS.
A R Robblee D R Clandinin
Poultry Sci 43(2) 462-466
Mar 1964 47.8 AM33P
Calcium, Chickens, Chlortetracycline, Eggs, Terephthalic acid.

7141-68
STUDIES ON THE DIETARY REQUIREMENT AND INTERACTION OF MAGNESIUM WITH ANTIBIOTICS IN TURKEYS TO 4 WEEKS OF AGE.
T W Sullivan
Poultry Sci 43(2) 401-405
Mar 1964 47.8 AM33P
Antibiotics, Magnesium, Penicillin, Streptomycin, Turkeys.

7142-68
INFLUENCE OF VITAMIN D ON AVRIOUS ASPECTS OF THE REPRODUCTIVE PROCESS IN MATURE HENS.
J L Turk J McGinnis
Poultry Sci 43(3) 539-583
May 1964 47.8 AM33P
Chickens, Eggs, Reproduction, Vitamin D.

7143-68
THE UTILIZATION BY THE CHICK OF CALCIUM FROM DIFFERENT SOURCES.
P W Waldroup C B Ammerman R H Harms
Poultry Sci 43(1) 212-216
Jan 1964 47.8 AM33P
Calcium, Chicks.

Diseases

7144-68
COMMON PROBLEMS IN THE PIG.
Vet Rec 74(32) 865-871
11 Aug 1962 41.8 V641
Anemia, Pneumonia, Rhinitis, Swine.

7145-68
HOG CHOLERA IS ON THE WAY OUT.
Amer Vet Med Ass J 147(6) 681-683
15 Sep 1965 41.8 AM3
Germ-free life, Hog cholera, Swine.

7146-68
POSSIBLE HAZARDS IN THE VETERINARY USE OF ANTIBIOTICS WITH PARTICULAR REFERENCE TO THEIR USE AS FOOD ADDITIVES.
Vet Rec 76(4) 110-111, 4 REFS.
25 Jan 1964 41.8 V641
Antibiotics, Food additives, Residues.

7147-68
EXPERIMENTAL ORNITHOSIS IN CALVES.
Amer Vet Med Ass J 142(6) 656
15 Mar 1963 41.8 AM3
Calves, Ornithosis, Turkeys.

7148-68
THE USE AND VALUE OF LABORATORY AND SKIN TESTS IN THE DIAGNOSIS OF JOHNE S DISEASE.
Vet Rec 74(37) 990-991
15 Sep 1962 41.8 V641
Johne s disease, Johnin test.

7149-68
REPORT OF THE COMMITTEE ON FOWL PEST, 1962.
Vet Rec 74(14) 427-428
07 Apr 1962 41.8 V641
Newcastle disease, Newcastle disease vaccines, Poultry.

7150-68
DISEASE ON A LARGE SCALE.
Vet Rec 76(34) 910-911
22 Aug 1964 41.8 V641
Animal diseases, Breeding.
The Times Supplement of Agriculture, July 7, 1964.

7151-68
TREATMENT OF ANIMALS POISONED BY ORGANIC PHOSPHORUS COMPOUNDS.
Amer Vet Med Ass J 142(1) 48
01 Jan 1963 41.8 AM3
Phosphorus, Poisoning.

7152-68
MYCOTOXICOSIS AND ANIMAL DISEASE.
Vet Rec 74(36) 963-964
08 Sep 1962 41.8 V641
Animal diseases, Feed, Mycotoxicosis.

7153-68
LIMITATIONS OF LUNGWORM VACCINE.
Amer Vet Med Ass J 147(4) 363
15 Aug 1965 41.8 AM3
Dictyocaulus, Immunization, Verminous bronchitis.

7154-68
ANTIBIOTICS IN MILK--POSTPONEMENT OF M.B.B. REDUCED PRICE SCHEME.
Vet Rec 76(9) 250-251
29 Feb 1964 41.8 V641
Antibiotics, Milk, Prices.

7155-68
ISOLATION OF ENTEROVIRUSES FROM INTESTINAL TRACT OF SWINE.
Amer Vet Med Ass J 142(4) 405
15 Feb 1963 41.8 AM3
Enteroviruses, Intestines, Swine, Virus diseases (animals).

7156-68
TOXICITY IN GROUNDNUTS.
Vet Rec 74(36) 964
08 Sep 1962 41.8 V641
Aflatoxin, Feed, Peanuts.

7157-68
ISU VETERINARIANS SUSPECT TWO WEEDS AS CAUSE OF SEASONAL SWINE DISEASE.
Amer Vet Med Ass J 147(9) 994-995
01 Nov 1965 41.8 AM3
Lamb s quarters, Pigweed, Seasonal swine disease, Swine, Weeds.

7158-68
SIXTH INTERNATIONAL SYMPOSIUM ON DISEASES OF ZOO ANIMALS.
Vet Rec 76(30) 822-824
25 Jul 1964 41.8 V641
Animal diseases, Zoological gardens.

7159-68
EFFECTS OF PAROMOMYCIN SULFATE ON BLACKHEAD IN TURKEYS.
Amer Vet Med Ass J 142(1) 53
01 Jan 1963 41.8 AM3
Blackhead, Metronidazole, Paromomycin sulfate, Turkeys.

7160-68
A REPORT OF THE AVMA MASTITIS COMMITTEE. THE VETERINARY PROFESSION AND PROGRAMS OF MILK QUALITY CONTROL.
Amer Vet Med Ass J 147(2) 154-156
15 Jul 1965 41.8 AM3
Dairy cattle, Germ-free life, Mastitis.

7161-68
DIHYDROSTREPTOMYCIN THERAPY OF BOVINE VIBRIOSIS.
Amer Vet Med Ass J 142(8) 880
15 Apr 1963 41.8 AM3
Cattle, Dihydrostreptomycin, Vibriosis.

7162-68
USE OF IRRADIATED VACCINES INCREASING.
Amer Vet Med Ass J 147(6) 652
15 Sep 1965 41.8 AM3
Helminthiasis, Immunization, Irradiation.

7163-68
FLUORESCENT ANTIBODY STUDIES FOR RABIES IN WILDLIFE.
Amer Vet Med Ass J 142(1) 53
01 Jan 1963 41.8 AM3
Foxes, Mice, Rabies, Skunks.

7164-68
RABIES IN DOGS AND MAN SHARPLY REDUCED.
Amer Vet Med Ass J 147(3) 259
01 Aug 1965 41.8 AM3
Dogs, Human diseases, Rabies.

7165-68
LYMPHOCYTE COUNTS RELATING TO BOVINE LYMPHOSARCOMA.
Amer Vet Med Ass J 142(2) 181-182
15 Jan 1963 41.8 AM3
Bovine lymphosarcoma, Cattle, Lymphocytes, Lymphosarcoma.

7166-68
THIABENDAZOLE AND TRICHINAE.
Amer Vet Med Ass J 147(11) 1262
01 Dec 1965 41.8 AM3
Thiabendazole, Trichinae.

7167-68
INEFFECTIVITY OF FURAZOLIDINE IN OVINE VIBRIOSIS.
Amer Vet Med Ass J 142(1) 54
01 Jan 1963 41.8 AM3
Lambs, Ovine vibriosis, Parturition, Vibrios.

7168-68
ANAPLASMOSIS VACCINE ANNOUNCED.
Amer Vet Med Ass J 147(2) 173
15 Jul 1965 41.8 AM3
Anaplasmosis, Cattle, Immunization.

7169-68
PHAGE TYPING OF STAPHYLOCOCCUS AUREUS.
Amer Vet Med Ass J 142(6) 657
15 Mar 1963 41.8 AM3
Bacteriophages, Mastitis, Staphylococcus.

7170-68
SALMONELLA PROBLEM RECEIVES PRIMARY ATTENTION AT AVMA COUNCIL MEETING.
Amer Vet Med Ass J 147(11) 1249-1250
01 Dec 1965 41.8 AM3
Animal nutrition, Germ-free life, Salmonellosis.

7171-68
PERIODICITY OF DIROFILARIA IN THE PERIPHERAL CIRCULATION OF DOGS.
Amer Vet Med Ass J 142(1) 22
01 Jan 1963 41.8 AM3
Circulatory system, Dirofilaria, Dogs, Microfilarial infestations.

7172-68
SKUNKS AND COWS ARE RABIES THREAT IN IOWA.
Amer Vet Med Ass J 147(2) 187
15 Jul 1967 41.8 AM3
Animal vectors, Cattle, Iowa, Rabies, Skunks.

7173-68
INFECTIVITY STABILITY OF FOOT-AND-MOUTH DISEASE VIRUS.
Amer Vet Med Ass J 142(4) 406
15 Feb 1963 41.8 AM3
Foot-and-mouth disease, Infectious diseases.

7174-68
SUSPECTED CASES OF WESTERN ENCEPHALITIS ON INCREASE.
Amer Vet Med Ass J 147(10) 1156
15 Nov 1965 41.8 AM3
Aedes, Culex, Insect vectors.

7175-68
EIMERIA MAXIMA IN GEORGIA BROILERS.
Amer Vet Med Ass J 142(7) 779
01 Apr 1963 41.8 AM3
Chicken types (meat), Coccidiosis, Eimeria.

7176-68
WISCONSIN ERADICATES BRUCELLOSIS.
Amer Vet Med Ass J 147(2) 187
15 Jul 1965 41.8 AM3
Brucellosis, Cattle, Immunization, Wisconsin.

7177-68
FOOT-AND-MOUTH DISEASE VACCINE-PRODUCTION OF ANTIGEN IN CULTURE.
Amer Vet Med Ass J 142(2) 182-183
15 Jan 1963 41.8 AM3
Antigens, Cattle, Foot-and-mouth disease, Viral vaccines, Virus diseases (animals).

7178-68
FIRST POLIOMYELITIS EPIZOOTIC IN LARGE PRIMATES UNDER STUDY.
Amer Vet Med Ass J 147(2) 187-188
15 Jul 1963 41.8 AM3
Epizootic diseases, Immunization, Poliomyelitis, Primates.

7179-68
SUSCEPTIBILITY TO HOG CHOLERA MAY BE RELATED TO BREED.
Amer Vet Med Ass J 142(6) 638
15 Mar 1963 41.8 AM3
Animal disease resistance, Hog cholera virus.

7180-68
WILDLIFE RABIES INCREASES.
Amer Vet Med Ass J 147(2) 132
15 Jul 1965 41.8 AM3
Foxes, Rabies, Skunks, Wildlife diseases.

7181-68
DETECTION OF BOVINE BRUCELLOSIS BY ACIDIFIED PLATE TEST ANTIGENS.
Amer Vet Med Ass J 142(4) 407
15 Feb 1963 41.8 AM3
Abortion, Bovine brucellosis, Brucella, Brucella abortus antigens, Brucellosis, Cattle.

7182-68
POLYSEROSITIS-ARTHRITIS COMPLEX IN SWINE.
Amer Vet Med Ass J 147(3) 244
01 Aug 1965 41.8 AM3
Glasser s disease, Hemophilus, Mycoplasma, Polyserositis, Swine.

7183-68
COMBINED SEROLOGIC TESTS MOST ACCURATE FOR IDENTIFYING BRUCELLOSIS REACTORS.
Amer Vet Med Ass J 142(8) 883
15 Apr 1963 41.8 AM3
Brucella, Brucellosis, Cattle, Serological tests.

7184-68
RAM EPIDIDYMITIS VERSUS BRUCELLOSIS.
Amer Vet Med Ass J 147(3) 252
01 Aug 1965 41.8 AM3
Brucella, Brucellosis, Epididymitis, Rams.

7185-68
BLOOD SERUM PROTEIN FROM MINK WITH ALEUTIAN DISEASE.
Amer Vet Med Ass J 142(2) 183
15 Jan 1963 41.8 AM3
Aleutian disease, Aleutian minks, Blood serum, Globulins, Minks, Proteins.

7186-68
RESPONSE OF COWS AND CALVES TO A PSITTACOSIS-LYMPHO-GRANULOMA GROUP AGENTS.
Amer Vet Med Ass J 142(6) 656
15 Mar 1963 41.8 AM3
Anemia, Cattle, Erythrogenesis, Leukopenia, Miyagawanella group viruses.

7187-68
TICKS IN THE UNITED STATES SERVE AS VECTORS OF DISEASE.
Amer Vet Med Ass J 142(4) 453
15 Feb 1963 41.8 AM3
Anaplasmosis, Boophilus, Dermacentor, Insect vectors, Ixodides, Piroplasmosis, Rocky mountain spotted fever, Spirochetosis, Tick paralysis, Tularemia.

7188-68
BRUCELLA-VACCINATED CATTLE HAVE FEWER ABORTIONS, INFECTED LESS EASILY.
Amer Vet Med Ass J 142(8) 883
15 Apr 1963 41.8 AM3
Abortion, Brucella abortus vaccines, Cattle.

7189-68
PROCAINE AS AN ANTIBIOTIC AND ANTIFUNGAL AGENT.
Amer Vet Med Ass J 142(2) 132
15 Jan 1963 41.8 AM3
Procaine, Proteus, Pseudomonas, Staphylococcus.

7190-68
CHANGES IN ENDOMETRIUM OF VIBRIO FETUS-INFECTED AND NONINFECTED HEIFERS.
Amer Vet Med Ass J 142(6) 658-659
15 Mar 1963 41.8 AM3
Cattle, Endometrium, Fetus, Vibrio.

7191-68
ANTIDOTE FOR TANNIC ACID POISONING IN RABBITS.
Amer Vet Med Ass J 142(4) 404
15 Feb 1965 41.8 AM3
Antidotes, Calcium hydroxide, Poisoning, Rabbits, Tannic acids.

7192-68
SIGNIFICANCE OF JOHNIN TEST ON NATURALLY INFECTED CATTLE.
Amer Vet Med Ass J 142(7) 783
01 Apr 1963 41.8 AM3
Cattle, Johnin test, Mycobacterium.

7193-68
PSOROPTIC CATTLE SCABIES ERADICATION ACTIVITIES FOR 1962.
Amer Vet Med Ass J 142(3) 263
01 Feb 1963 41.8 AM3
Cattle, Germ-free life, Psoroptes, Scabies.

7194-68
RIFT VALLEY FEVER IN CALVES, GOATS AND PIGS.
Amer Vet Med Ass J 142(6) 659
15 Mar 1963 41.8 AM3
Calves, Goats, Rift valley fever virus, Swine, Viremia.

7195-68
OVINE ABORTION VIRUS IN EWES AND FETUSES.
Amer Vet Med Ass J 142(4) 405-406
15 Feb 1963 41.8 AM3
Abortion, Fetus, Ovine abortion virus, Sheep, Virus diseases (animals).

7196-68
HEMAGGLUTINATION TEST FOR DIAGNOSIS OF HOG CHOLERA.
Amer Vet Med Ass J 142(7) 767
01 Apr 1963 41.8 AM3
Antibody-coated erthrocytes, Hemagglutination-inhibition test, Hog cholera virus.

7197-68
COCKERS AND LABRADORS MORE RESISTANT TO DISTEMPER.
Amer Vet Med Ass J 142(2) 143
15 Jan 1963 41.8 AM3
Antibodies, Beagle dogs, Canine distemper, Cocker spaniel dogs, Dogs, Immunization, Labrador retriever dogs, Pointer dogs.

7198-68
COMPLEMENT-FIXATION TEST FOR DETECTING JAPANESE ENCEPHALITIS VIRUS.
Amer Vet Med Ass J 142(6) 659-660
15 Mar 1963 41.8 AM3
Complement fixation, Japanese b encephalitis, Serum, Swine.

7199-68
TOXICITY OF COPPER SULFATE IN BEEF CATTLE.
Amer Vet Med Ass J 142(5) 509
01 Mar 1963 41.8 AM3
Animal nutrition, Cattle, Copper, Copper sulfate, Toxicology.

7200-68
AFRICAN HORSE-SICKNESS.
Amer Vet Med Ass J 142(8) 894
15 Apr 1967 41.8 AM3
African horse sickness, Culicoides, Immunization, Insect vectors.

7201-68
DETECTION OF ANTIBODIES TO STAPHYLOCOCCUS AUREUS IN CATTLE.
Amer Vet Med Ass J 142(2) 181
15 Jan 1963 41.8 AM3
Antibodies, Cattle, Staphylococcus.

7202-68
THREE METHODS FOR CONTROLLING GRASS TETANY IN CATTLE AND SHEEP.
Amer Vet Med Ass J 142(6) 623
15 Mar 1963 41.8 AM3
Cattle, Grass tetany, Magnesium, Sheep.

7203-68
INJECTED SAPONINS AS ABORTIFACIENTS.
Amer Vet Med Ass J 142(4) 403
15 Feb 1963 41.8 AM3
Abortifacients, Abortion, Agave, Pregnancy, Saponins.

7204-68
PROPHYLACTIC THERAPY AGAINST DIROFILARIA IMMITIS.
Amer Vet Med Ass J 142(6) 660-661
15 Mar 1963 41.8 AM3
Diethylcarbamazine, Dirofilaria, Dithiazanine, Dogs.

7205-68
AUJESKY S DISEASE IN DOGS.
Amer Vet Med Ass J 142(3) 292
01 Feb 1963 41.8 AM3
Dogs, Herpes simplex, Pseudorabies.

7206-68
RIFT VALLEY FEVER IN LAMBS AND SHEEP.
Amer Vet Med Ass J 142(6) 655
15 Mar 1963 41.8 AM3
Aedes, Animal disease transmission, Lambs, Rift valley fever virus, Sheep.

7207-68
EFFECT OF RABIES VIRUS INOCULATED INTO FOXES AND SKUNKS.
Amer Vet Med Ass J 142(4) 404-405
15 Feb 1963 41.8 AM3
Foxes, Rabies, Skunks, Virus diseases (animals).

7208-68
ANTIDOTE FOR TANNIC ACID POISONING IN RABBITS.
Amer Vet Med Ass J 142(6) 662
15 Mar 1963 41.8 AM3
Antidotes, Calcium hydroxide, Poisons, Rabbits, Tannic acids.

7209-68
ANAPLASMOSIS COMPLEMENT-FIXATION RESPONSE IN CALVES.
Amer Vet Med Ass J 142(3) 300
01 Feb 1963 41.8 AM3
Anaplasmosis, Animal disease transmission, Calves.

7210-68
EXPERIMENTAL TRANSMISSION OF ALEUTIAN DISEASE OF MINK.
Amer Vet Med Ass J 142(6) 662
15 Mar 1963 41.8 AM3
Aleutian disease, Animal disease transmission, Minks.

7211-68
RESPIRATORY DISEASE IN VACCINATED FEEDER CATTLE.
Amer Vet Med Ass J 142(5) 536
01 Mar 1963 41.8 AM3
Bovine rhinotracheitis vaccines, Cattle, Pasteurella bacterins, Respiratory diseases.

7212-68
ROLE OF DEER IN EPIZOOTIOLOGY OF LEPTOSPIROSIS.
Amer Vet Med Ass J 142(6) 662
15 Mar 1963 41.8 AM3
Deer, Epizootic diseases, Leptospira, Leptospirosis.

7213-68
PREGNANCY HORMONES AND BRUCELLACIDAL ACTIVITY IN BOVINE SERUM.
Amer Vet Med Ass J 142(3) 300
01 Feb 1963 41.8 AM3
Brucellosis, Cattle, Chorionic gonadotropins, Hormones, Serum.

7214-68
FETAL SKIN BARRORS MOST MICROORGANISMS.
Amer Vet Med Ass J 142(6) 642
15 Mar 1963 41.8 AM3
Brucellosis, Fetal skin, Microorganisms.

7215-68
GASTROINTESTINAL NEMATODES IN BEEF YEARLINGS.
Amer Vet Med Ass J 142(5) 537-538
01 Mar 1963 41.8 AM3
Beef cattle, Festuca, Gastrointestinal system, Nematodes.

7216-68
BLOOD LOSS CAUSED BY HAEMONCHUS CONTORTUS IN SHEEP.
Amer Vet Med Ass J 142(3) 301
01 Feb 1963 41.8 AM3
Blood, Haemonchus, Radioactive tracers, Sheep.

7217-68
RESPONSE OF RABBITS AND GUINEA PIGS TO VESICULAR STOMATITIS VIRUS.
Amer Vet Med Ass J 142(4) 403-404
15 Feb 1963 41.8 AM3
Antibodies, Guinea pigs, Rabbits, Veicular stomatitis, Virus diseases (animals).

7218-68
PURIFICATION OF SWINE ENTEROVIRUSES AND SWINEPOX VIRUSES.
Amer Vet Med Ass J 142(3) 301
01 Feb 1963 41.8 AM3
Cellulose, Enteroviruses, Swine, Swinepox.

7219-68
HOG CHOLERA BREAKS INFLUENCED BY BACTERIAL INFECTION.
Amer Vet Med Ass J 142(6) 620
15 Mar 1963 41.8 AM3
Bacteria, Hog cholera, Hog cholera Breaks, Pasteurella bacterins, Salmonella bacterins.

7220-68
MUSCLE NECROSIS AND AMYLOIDOSIS IN THE WHITE PEKIN DUCK.
Amer Vet Med Ass J 142(3) 301-302
01 Feb 1963 41.8 AM3
Amyloidosis, Carbohydrates, Metabolism, Muscles, Necrosis, Pekin ducks.

7221-68
SALMONELLOSIS IN THE DOG.
Amer Vet Med Ass J 142(3) 302
01 Feb 1963 41.8 AM3
Animal nutrition, Dogs, Salmonella, Salmonellosis.

7222-68
CLOSTRIDIUM CHAVOEI COMMON IN NORMAL ADULT DOGS.
Amer Vet Med Ass J 142(2) 143
15 Jan 1963 41.8 AM3
Bacteria, Clostridium, Dogs, Liver.

7223-68
SUSPECTED ANTHRAX IN A BITCH.
E von Lustig-Lendva
Vet Rec 76(9) 262
29 Feb 1964 41.8 V641
Anthrax, Chlortetracycline, Dogs.

30 7224-68

7224-68
THE GROWTH OF RABIES VIRUS IN TISSUE CULTURE AND ITS USE AS A LIVING ATTENUATED VACCINE FOR DOMESTIC ANIMALS.
M K Abelseth
Diss Abstr Sect B 27 (12,PT.1), 4228B-4229B
Jun 1967 Z5055.U49D53
Immunization, Livestock, Myxoviruses, Rabies virus, Tissue culture, Viral vaccines.

7225-68
GROUNDNUT TOXICITY. ASPERGILLUS FLAVUS TOXIN (AFLATOXIN) IN ANIMAL PRODUCTS PRELIMINARY COMMUNICATION.
B Allcroft R B A Carnaghan
Vet Rec 74(31) 863-864, 5 REFS.
04 Aug 1962 41.8 V641
Aflatoxin, Cattle, Peanuts.

7226-68
CROTALARIA SPECTABILIS INTOXICATION IN RHESUS MONKEYS.
J R Allen
Amer Vet Med Ass J 147(10) 1067
15 Nov 1965 41.8 AM3
Crotalaria, Monkeys.

7227-68
THREE CASES OF SALMONELLA DUBLIN IN ADULT CATTLE ON THE SAME FARM.
O F Amor A R Hopkins
Vet Rec 74(45) 1237-1238
10 Nov 1962 41.8 V641
Cattle, Salmonellosis.

7228-68
OCCURRENCE AND ETIOLOGY OF INFECTIOUS CALF DIARRHEA.
H E Amstutz
Amer Vet Med Ass J 147(12) 1360-1363
15 Dec 1965 41.8 AM3
Calves, Cattle, Diarrhea, Escherichia.

7229-68
THE RESPONSIBILITIES OF VETERINARY PRACTITIONERS AS TO TBE USE OF PESTICIDES.
R J Anderson
Amer Vet Med Ass J 147(12) 1584-1587
15 Dec 1965 41.8 AM3
Insect population, Toxicology, Veterinary medicine.

7230-68
CATTLE LICE EBADICATION STUDIES- A-3-YEAR EVALUATION.
D W Anthony L C Mott G D Mills
Amer Vet Med Ass J 142(2) 130-132
15 Jan 1963 41.8 AM3
Anoplura, Bovicola, Cattle, Haematopinus, Linognathus.

7231-68
THE RELATIVE VALUE OF FORMALIN AND BETAPROPIOLACTONE AS INACTIVATING AGENTS FOR NEWCASTLE DISEASE VACCINE.
G S Appleton S B Hitchner R W Winterfield
Vet Rec 76(5) 162-163, 3 REFS.
01 Feb 1964 41.8 V641
Formaldehyde, Hydracrylic acid beta-lactone, Newcastle disease vaccines.

7232-68
DIFFUSE LIPOMATOSIS IN A BEIFER.
B Arbuckle
Vet Rec 74(27) 768, 3 REFS.
07 Jul 1962 41.8 V641
Cattle, Lipomatosis.

7233-68
CYSTEAMINE THERAPY OF PRIMARY BOVINE KETOSIS.
S J Bach K G Bibbitt
Vet Rec 74(36) 965-966, 6 REFS.
08 Sep 1962 41.8 V641
Cattle, Cysteamine, Ketosis.

7234-68
CANINE LEUKOSIS IN SWEDEN.
A W Backgren
Amer Vet Med Ass J 147(5) 513
01 Sep 1965 41.8 AM3
Dogs, Leukosis, Lymphatic system.

7235-68
CANDIDIASIS IN PIGS IN NORTHWEST WISCONSIN.
E D Baker L P Cadman
Amer Vet Med Ass J 142(7) 763-767, 4 PLS.
01 Apr 1963 41.8 AM3
Candida, Moniliasis, Swine.

7236-68
AN ANALYSIS OF THE BLOAT COMPLEX AND PROGRESS TOWARDS ITS PREVENTION.
E E Barley
Amer Vet Med Ass J 147(12) 1397-1402
15 Dec 1965 41.8 AM3
Bloat, Legumes, Rumen.

7237-68
A CONDITION IN THE GOAT RESEMBLING SWAYBACK IN LAMBS.
R M Barlow J M Robertson E C Owen R Proudfoot
Vet Rec 74(26) 737-739, 18 REFS.
30 Jun 1962 41.8 V641
Goats, Swayback.

7238-68
HEREDITARY RETINAL ATROPHY IN THE POODLE.
K C Barnett
Vet Rec 74(24) 672-675, 4 REFS., 1 TAB.
16 Jun 1962 41.8 V641
Hereditary diseases, Poodle dogs, Retina.

7239-68
THE PRESERVATION OF BABESIA BIGEMINA, ANAPLASMA CENTRALE AND A. MARGINALE BY DEEP-FREEZING.
S F Barnett
Vet Rec 76(1) 4-8, 3 REFS., 6 TABS.
04 Jan 1964 41.8 V641
Anaplasmosis vaccines, Cold storage, Piroplasmosis.

7240-68
HYPOMYELINOGENESIS CONGENITA IN LAMBS.
M Barr
Vet Rec 76(30) 815-817, 3 REFS.
25 Jul 1964 41.8 V641
Border disease, Lambs.

7241-68
PIG DISEASES IN TBE RHODESIAS.
N S Barron
Vet Rec 74(14) 426
07 Apr 1962 41.8 V641
Ascariasis, Swine, Virus pneumonia.

7242-68
THYROID DYSPLASIA IN THE BUDGERIAR.
J E Beach
Vet Rec 76(1) 18-19, 4 REFS.
04 Jan 1964 41.8 V641
Birds, Deficiency diseases, Thyroid gland.

7243-68
VERTEBRAL OSTEOPHYTES IN TBE CAT.
R Beadman R N Smith A S King
Vet Rec 76(37) 1005-1007, 5 REFS.
12 Sep 1964 41.8 V641
Cats, Osteophytes.

7244-68
PERFORATION OF THE OMASUM AND ULCERATION OF THE ABOMASUM IN A COW.
T B Begg
Vet Rec 74(39) 1039-1040, 11 REFS.
29 Sep 1962 41.8 V641
Cattle, Ulcers.

7245-68
TOXIC CBEMICALS.
M Berwyn-Jones
Vet Rec 76(11) 330-331, 4 REFS.
14 Mar 1964 41.8 V641
Fluorosis, Legislation, Livestock.

7246-68
PNEUMONIA IN CALVES CAUSED BY PARAINFLUENZA VIRUS TYPE 3.
A O Betts J R Jennings A R Omar Z E Page J B Spence
Vet Rec 76(13) 382-384, 7 REFS.
28 Mar 1964 41.8 V641
Calves, Pneumonia.

7247-68
EFFECT OF INGESTED DISINFECTANTS ON CHICKS.
B W Bierer C F Risher D E Roebuck
Amer Vet Med Ass J 142(5) 512-513
01 Mar 1963 41.8 AM3
Chickens, Coal tar, Cresylic acid, Sodium orthophenylphenate, Toxicology.

7248-68
CHOLELITHIASIS CAUSING OBSTRUCTIVE JAUNDICE IN A BOXER DOG.
R M Binns
Vet Rec 76(9) 239-243, 15 REFS., 1 TAB.
29 Feb 1964 41.8 V641
Boxer dogs, Gallstones, Jaundice.

7249-68
CHRONOLOGIC EVALUATION OF TETRATOGENICITY IN SHEEP FED VERATRUM CALIFORNICUM.
W Binns J I Shupe R F Keeler L F James
Amer Vet Med Ass J 147(8) 839-842, 3 FIGS.
15 Oct 1965 41.8 AM3
Fetal death, Sheep, Veratrum.

7250-68
DERMATOPHYTOSIS (RINGWORM) PATHOGENESIS, DIAGNOSIS, AND TREATMENT.
J C Blackmore
Amer Vet Med Ass J 147(12) 1470-1474
15 Dec 1965 41.8 AM3
Dermatophytosis, Microsporum, Ringworm, Trichophyton.

7251-68
GRANULOCYTOPOIESIS IN GERMFREE MICE.
D R Boggs P A Chervenick J C Marsh H I Pilgrim
G E Cartwright M M Wintrobe
Soc Exp Biol Med Proc 125 (1), 325-330 REF
May 1967 442.9 SO1
Germ-free life, Granulocytopoiesis, Mice.

7252-68
ARSENICAL POISONING OF RACE HORSES.
E Booth
Vet Rec 76(11) 331
14 Mar 1964 41.8 V641
Arsenic, Poisoning, Race horses.

7253-68
HUMAN TUBERCULOSIS IN AN OTTER.
K Borg
Amer Vet Med Ass J 147(10) 1074
15 Nov 1965 41.8 AM3
Mycobacterium, Otters.

7254-68
METALDEHYDE POISONING.
B Boswood
Vet Rec 74(17) 517-518
28 Apr 1962 41.8 V641
Dogs, Metaldehyde, Poisoning.

7255-68
BRUCELLOSIS CONTROL AND ERADICATION NOTES AND PROPOSALS OF THE OXFORD WORKING GROUP.
P W Bothwell A McDiarmid H G Bartram H A Mackenzie-Wintle D
Vet Rec 74(41) 1091-1101, 27 REFS., 3 TABS.
13 Oct 1962 41.8 V641
Brucellosis.

7256-68
ANTIBIOTICS IN SLOW- AND QUICK-RELEASE BASES.
G C Brander A Jones F K Neave F H Dodd R G Kingwill
Vet Rec 76(11) 329-330, 1 TAB.
14 Mar 1964 41.8 V641
Antibiotics, Mastitis.

7257-68
VITAMIN D3 AND OVINE RING WOMB .
G D Bridges
Vet Rec 74(16) 494-495
21 Apr 1962 41.8 V641
Hormones, Parturition, Sheep, Uterus, Vitamin D3.

7258-68
A VACCINE FOR ANAPLASMOSIS.
W E Brock I O Kliener C C Pearson
Amer Vet Med Ass J 147(9) 948-951, 3 TABS
01 Nov 1965 41.8 AM3
Anaplasmosis vaccines, Cattle, Immunization.

7259-68
FLUOROSIS OF NON-INDUSTRIAL ORIGIN IN A DAIRY HERD.
K N Burns M Gitter M D Keeling
Vet Rec 74(31) 860-861
04 Aug 1962 41.8 V641
Dairy cattle, Fluorosis.

7260-68
FLUOROSIS CAUSES LAMENESS.
K N Burns
Amer Vet Med Ass J 147(7) 735
01 Oct 1965 41.8 AM3
Cattle, Fluorosis, Lameness.

7261-68
A NEW PENICILLIN.
R S Cameron
Vet Rec 74(46) 1278-1279, 8 REFS.
17 Nov 1962 41.8 V641
Bacteria, Chloramphenicol, Penicillin.

7262-68
OSTEOGENIC SARCOMA OF THE OESOPHAGUS IN A DOG.
J R Campbell H M Pirie W L Weipers
Vet Rec 76(9) 244-246, 4 REFS.
29 Feb 1964 41.8 V641
Dogs, Esophagus, Sarcoma.

7263-68
PORCINE GASTRIC ULCERS IN THE UNITED STATESO A REVIEW.
D T Cappucci
Veterinarian +oxford+ 4 (4), 213-218 REF
Aug 1967 41.8 V6467
Gastrointestinal system, Livestock diseases, Swine, Ulcers.
Abstract included.

7264-68
GROUNDNUT TOXICITY.
R B A Carnaghan R Allcroft
Vet Rec 74(34) 925-926, 13 REFS.
25 Aug 1962 41.8 V641
Aflatoxin, Feed, Hyperkeratosis, Peanuts, Poisoning.

7265-68
THE RECOVERY OF PASTEURELLA MULTOCIDA FROM LYOPHILISED CULTURES.
G R Carter C Grinewitsch
Vet Rec 74(31) 861, 2 REFS.
04 Aug 1962 41.8 V641
Blood, Culture media, Lyophilization, Pasteurellosis.

7266-68
SUDDEN DEATH IN A CALF ASSOCIATED WITH ADVANCED LYMPHATIC LEUCOSIS.
P C Carwardine
Vet Rec 76(29) 803, 3 REFS.
18 Jul 1964 41.8 V641
Calves, Lymphosarcoma.

7267-68
CARBOMYCIN FOR PLEUROPNEUMONIA-LIKE ORGANISM INFECTION.
R R Chalquest W E Babcock J E Fahey
Amer Vet Med Ass J 147(12) 1672
15 Dec 1967 41.8 AM3
Carbomycin, Pleuropneumonia-like organisms, Poultry.

7268-68
FIRST REPORT OF JOHNE S DISEASE IN THE SUDAN.
A Q Chaudhari M T Fawi H M Obeid
Vet Rec 76(9) 246-247, 10 REFS.
29 Feb 1964 41.8 V641
Goats, Johne s disease, Livestock.

7269-68
MYCOTOXICOSIS AND ANIMAL DISEASE.
G J Christie
Vet Rec 74(44) 1194
03 Nov 1962 41.8 V641
Livestock, Mycotoxicosis.

7270-68
A MIXTURE OF DIAVERIDINE AND SULFAQUINOXALINE AS A COCCIDIOSTAT FOR POULTRY. I. PRELIMINARY STUDIES ON EFFICIENCY AGAINST EIMERIA TENELLA AND E. NECATRIX INFECTIONS, AND ON TOXICITY IN POULTRY.
M L Clarke
Vet Rec 74(31) 845-848, 12 REFS., 4 TABS.
04 Aug 1962 41.8 V641
Coccidiosis, Poultry, Sulfaquinoxaline.

7271-68
A CASE OF BOVINE LYMPHOMA.
F G Clegg
Amer Vet Med Ass J 147(4) 382
15 Aug 1967 41.8 AM3
Cattle, Lymphoma.

30 7272-68

7272-68
HAEMOGLOBINAEMIA OF CATTLE ASSOCIATED WITH THE FEEDING OF BRASSICAE SPECIES.
F G Clegg R K Evans
Vet Rec 74(44) 1169-1176, 20 REFS., 4 TABS.
03 Nov 1962 41.8 V641
Anemia, Cattle, Kale.

7273-68
AN OUTBREAK OF POISONING IN STORE CATTLE ATTRIBUTED TO BRAZILIAN GROUNDNUT MEAL.
F G Clegg H Bryson
Vet Rec 74(37) 992-994, 11 REFS.
15 Sep 1962 41.8 V641
Cattle, Peanut meal, Poisoning.

7274-68
ZINC BACITRACIN AND CHICK GROWTH.
M E Coates G F Harrison
Vet Rec 74(44) 1191-1192
03 Nov 1962 41.8 V641
Chicks, Growth factors, Penicillin, Zinc bacitracin.

7275-68
CHRONIC RHINITIS IN CATS.
A J Cclegrave B Ingham J M Inglis
Vet Rec 76(2) 67-68
11 Jan 1964 41.8 V641
Cats, Rhinitis, Spiramycin.

7276-68
EVALUATION OF BACTERINS FOR CONTROL OF SWINE ABSCESSES.
G H Conner J A Hcefer D E Ellis
Amer Vet Med Ass J 147(5) 479-482, 3 TABS
01 Sep 1965 41.8 AM3
Abscesses, Cattle, Immunization, Staphylococcus, Streptococcus, Swine.

7277-68
ELBOW DYSPLASIA IN THE GERMAN SHEPHERD DOG.
E A Corley
Diss Abstr Sect B 27 (12,PT.1), 4216B
Jun 1967 Z5055.U49D53
Animal abnormalities, Animal genetics, Dogs, Dysplasia, Extremities, Radicgraphy.

7278-68
INFECTIOUS BOVINE RHINOTRACHEITIS ABORTION AND ITS RELATIONSHIP TO NUTRITION IN CALIFORNIA BEEF CATTLE.
C S Crane
Amer Vet Med Ass J 147(12) 1308-1309
15 Dec 1965 41.8 AM3
Abortion, Animal nutrition, California beef cattle, Cattle, Rhinotracheitis.

7279-68
ARSENICAL POISONING OF RACEHORSES.
H A Crawshaw
Vet Rec 76(12) 354-355
21 Mar 1964 41.8 V641
Arsenic, Poisoning, Race horses, Sodium thiosulfate.

7280-68
BASIC SLAG TOXICITY IN CATTLE AND SHEEP.
J P Crowley M A Murphy
Vet Rec 74(44) 1177-1178, 4 REFS.
03 Nov 1962 41.8 V641
Basic slag, Cattle, Poisoning.

7281-68
LABRADOR PLAGUE .
P J Dalton
Vet Rec 74(39) 1064
29 Sep 1964 41.8 V641
Skin diseases.

7282-68
THE OCCURRENCE AND DISTRIBUTION IN THE UNITED KINGDOM OF ANTIBODIES TO PARAINFLUENZA 3 AND INFECTIOUS BOVINE RHINOTRACHEITIS VIRUSES IN BOVINE SERA.
P S Dawson J H Darbyshire
Vet Rec 76(4) 111-115, 18 REFS., 2 TABS.
25 Jan 1964 41.8 V641
Antibodies, Infectious bovine rhinotracheitis virus, Parainfluenza-3 virus.

7283-68
POTENCY TESTS OF SEMPYLE-TYPE RABIES VACCINES OF NERVOUS TISSUE ORIGIN FOR USE IN ANIMALS.
D J Dean W M Evans I Sherman
Amer Vet Med Ass J 142(2) 156-158
15 Jan 1963 41.8 AM3
Habel test, Nervous system, Rabies.

7284-68
CHARACTERIZATION AND CLASSIFICATION OF NEWLY ISOLATED AVIAN ENTERIC VIRUSES.
D R Deshmukh
Diss Abstr Sect B 27 (12,PT.1), 4230B
Jun 1967 Z5055.U49D53
Chickens, Enteroviruses, Reoviruses.

7285-68
MYCOSIS IN A MANATEE.
R P Dilbone
Amer Vet Med Ass J 147(10) 1095
15 Nov 1965 41.8 AM3
Epidermophyton, Manatees, Mycosis.

7286-68
EPIZOOTIOLOGY OF EQUINE VIRAL RHINOPNEUMONITIS.
E R Doll J T Bryans
Amer Vet Med Ass J 142(1) 31-37, 15 REFS.
01 Jan 1963 41.8 AM3
Epizootic diseases, Equine rhinopneumonitis, Horses.

7287-68
RUPTURE OF THE BLADDER IN A CALF.
G P Doran C W Maclean
Vet Rec 74(27) 777
07 Jul 1962 41.8 V641
Bladder, Calves, Hernia.

7288-68
VACCINATION AGAINST JOHNE S DISEASE.
T M Doyle
Vet Rec 76(3) 73-77, 7 REFS., 2 TABS.
18 Jan 1964 41.8 V641
Immunization, Johne s disease.

7289-68
BOVINE LEUKEMIA.
R M Dutcher
Amer Vet Med Ass J 147(4) 369
15 Aug 1965 41.8 AM3
Leukemia, Lymphosarcoma.

7290-68
POLYARTHRITIS AND EPIPHYSEOLYSIS OF PIGS IN ENGLAND.
I F Duthie M C Lancaster
Vet Rec 76(10) 263-273, 21 REFS., 7 TABS.
07 Mar 1964 41.8 V641
Arthritis, Swine.

7291-68
IDENTIFICATION AND PERSISTENCE OF PHAGE TYPES OF STAPHYLOCOCCUS AUREUS IN DAIRY HERDS IN FLORIDA.
G T Edds D A Sanders
Amer Vet Med Ass J 147(12) 1665
15 Dec 1965 41.8 AM3
Dairy cattle, Florida, Mastitis, Staphylococcus.

7292-68
A SIMPLE TEST FOR DEPRIVATION OF COLOSTRUM IN PIGLETS.
B L Edwards
Vet Rec 74(17) 504-506, 7 REFS., 3 TABS.
28 Apr 1962 41.8 V641
Baby pigs, Colostrum, Sodium sulfite.

7293-68
RED SQUIRREL DISEASE.
F B Edwards
Vet Rec 74(26) 739-741
30 Jun 1962 41.8 V641
Insect vectors, Squirrels, Wildlife diseases.

7294-68
THE EFFECT OF TYLOSIN AGAINST EXPERIMENTAL AND NATURAL INFECTION WITH MYCOPLASMA IN GOATS.
M El Nasri
Vet Rec 76(32) 876-877, 6 REFS., 1 TAB.
08 Aug 1964 41.8 V641
Antibiotics, Goats, Pleuropneumonia.

7295-68
BASE COMPOSITION AND THERMAL DENATURATION OF DNA ISOLATED FROM ANAPLASMA MARGINALE.
R D Ellender G T Dimopoullos
Soc Exp Biol Med Proc 125 (1), 82-85 REF
May 1967 442.9 S01

Anaplasma marginale, Cattle, Deoxyribonucleic acid.

7296-68
AN UNUSUAL SPINDLE-CELL TUMOUR OF THE MANDIBLE OF A COW.
H A Ellis D H Till
Vet Rec 74(16) 472-474, 4 REFS.
21 Apr 1962 41.8 V641
Cattle, Neoplasms.

7297-68
PRENATAL BCG CHOLERA INFECTION A POTENTIAL SOURCE OF HOG CHOLERA.
J L Emerson A L Delez
Amer Vet Med Ass J 147(12) 1346-1349
15 Dec 1965 41.8 AM3
Germ-free life, Bcg cholera virus, Swine.

7298-68
CEREBELLAR HYPOPLASIA, HYPOMYELINOGENESIS, AND CONGENITAL TREMORS OF PIGS, ASSOCIATED WITH PRENATAL BOG CHOLERA VACCINATION OF SOWS.
J L Emerson A L Delez
Amer Vet Med Ass J 147(1) 47-54, 9 FLS.
01 Jul 1965 41.8 AM3
Congenital tremors, Fetal death, Bog cholera virus, Hypomyelinogenesis, Hypoplasia, Swine.

7299-68
AN EVALUATION OF THE CALIFORNIA MASTITIS TEST AND THE NEGRETTI FIELD TEST AS INDICATORS OF SUBCLINICAL BOVINE MASTITIS.
R Eubank
Vet Rec 74(38) 1017-1020, 10 REFS., 6 REFS.
22 Sep 1962 41.8 V641
California mastitis test, Diagnosis, Mastitis.

7300-68
BRACKEN POISONING OF FARM ANIMALS.
W C Evans
Vet Rec 76(13) 365-368, 7 REFS.
28 Mar 1964 41.8 V641
Avitaminosis, Livestock, Poisoning, Pteridium.

7301-68
THE CONTROL OF AN OUTBREAK OF PNEUMONIA IN BROILER CALVES WITH VIRUGON, A SYNTHETIC, ORAL ANTI-VIRAL AGENT.
C Fennell
Vet Rec 76(9) 259-260, 3 REFS.
29 Feb 1964 41.8 V641
Calves, Virucides, Virus pneumonia.

7302-68
THE USE OF THIOFURADENE AS A GROWTH STIMULANT AND ANTHELMINTIC IN THE PRODUCTION OF PORK IN THE BAHAMAS.
B K Fenton
Vet Rec 74(45) 1222-1225, 4 REFS., 1 TAB.
10 Nov 1962 41.8 V641
Helminthiasis, Nitrofurans, Swine.

7303-68
VACCINATION OF PUPPIES.
A K Floeck G Holbrooke
Vet Rec 76(6) 185, 2 REFS.
08 Feb 1964 41.8 V641
Canine distemper virus, Dogs, Immunization.

7304-68
TOXOPLASMOSIS IN PIGS. I. THE INFLUENCE OF AGE ON THE PATHOGENICITY OF TOXOPLASMA GONDII FOR PIGS.
C Folkers
Vet Rec 76(27) 747-749, 16 REFS.
04 Jul 1964 41.8 V641
Swine, Toxoplasmosis.

7305-68
TOXOPLASMOSIS IN PIGS. II.- EXPERIMENTS ON THE PATHOGENICITY OF TOXOPLASMA GONDII FOR PIGS INFECTED BY DIFFERENT ROUTES.
C Folkers
Vet Rec 76(28) 770-774, 18 REFS., 1 TAB.
11 Jul 1964 41.8 V641
Swine, Toxoplasmosis.

7306-68
RECOVERY FROM GRASS SICKNESS.
D M M Forth
Vet Rec 76(28) 791-792
11 Jul 1964 41.8 V641
Carbachol, Grass sickness, Horses.

7307-68
NIGROPALLIDAL ENCEPHALOMALACIA IN THE HORSE.
M E Fowler
Amer Vet Med Ass J 147(6) 607-616, 17 FIGS.
15 Sep 1965 41.8 AM3
Centaurea, Encephalomalacia, Horses, Nigropallidal encephalomalacia, Yellow star thistle.

7308-68
ACORN POISONING IN A COW AND A SHEEP.
M E Fowler W P C Richards
Amer Vet Med Ass J 147(11) 1215-1220, 23 REFS., 6 FIGS.
01 Dec 1965 41.8 AM3
Acorns, Cattle, Poisoning, Sheep.

7309-68
TICK-BORNE DISEASE CONTROL.
J Francis
Vet Rec 74(25) 735
23 Jun 1962 41.8 V641
Breeding, Cattle, Insect vectors.

7310-68
NEWER KNOWLEDGE OF OVINE VIBRIOSIS.
F W Frank D G Waldhalm W A Meinershagen L B Scrivner
Amer Vet Med Ass J 147(12) 1313-1318, 5 TABS.
15 Dec 1965 41.8 AM3
Bacterial diseases (animals), Sheep, Vibrio, Vibriosis.

7311-68
CHLORTETRACYCLINE FOR ELIMINATION OF ANAPLASMOSIS IN CARRIER CATTLE.
T E Franklin J W Huff L C Grumbles
Amer Vet Med Ass J 147(4) 353-356, 3 TABS.
15 Aug 1965 41.8 AM3
Anaplasmosis, Cattle, Chlortetracycline.

7312-68
THE EFFECT OF STAPHYLOCOCCAL TOXINS ON RUMINANT ERYTHROCYTES TREATED WITH DIFFUSABLE SUBSTANCES FORMED BY CORYNEBACTERIA.
G Fraser
Vet Rec 74(26) 753-754, 6 REFS.
30 Jun 1962 41.8 V641
Bacteria, Hemolysins, Sheep, Toxins.

7313-68
ANTIVIRAL ACTIVITY OF HIGHER PLANTS AND PROPIONIN ON LYMPHOCYTIC CHORIOMENINGITIS INFECTION.
E Furusawa S Ramanathan S Furusawa Y K Woo W Cutting
Soc Exp Biol Med Proc 125 (1), 234-239 REF
May 1967 442.9 SO1
Lymphocytic choriomeningitis virus, Magnolia kobus, Mice, Narcissus tazetta, Propionibacterium freudenreichii.

7314-68
STUDIES ON AN EXPERIMENTAL VACCINE FOR PROPHYLAXIS OF SHIPPING FEVER.
C Gale A H Bamdy A L Trapp
Amer Vet Med Ass J 142(8) 884-887, 4 TABS.
15 Apr 1963 41.8 AM3
Cattle, Immunization, Myxoviruses, Parainfluenza-3 vaccines, Pasteurella, Shipping fever.

7315-68
STANDARDIZED INFECTIONS FOR LABORATORY EVALUATION OF COMPOUNDS AGAINST A CHRONIC RESPIRATORY DISEASE COMPLEX IN CHICKENS.
G O Gale C O Baughn
Poultry Sci 43(1) 182-211
Jan 1964 47.8 AM33P
Chickens, Chronic respiratory disease, Escherichia, Mycoplasma, Pleuropneumonia-like organisms.

7316-68
MUSCULAR DYSTROPHY IN CALVES SIMULTANEOUS PERACUTE AND PROGRESSIVE TYPES.
P Gallagher
Vet Rec 74(35) 936
01 Sep 1962 41.8 V641
Calves, Muscular dystrophy.

7317-68
ATPASE ACTIVITY OF THE ERYTHROCYTIC MEMBRANE IN ANAPLASMOSIS AND OF ANAPLASMA MARGINALE.
C P Garon G T Dimopoullos
Soc Exp Biol Med Proc 125 (1), 310-313 REF
May 1967 442.9 SO1
Adenosinetriphosphatase, Anaplasma marginale, Anaplasmosis, Cattle, Erythrocytes.

7318-68
PATHOLOGICAL CHANGES IN THE TARSI OF CATTLE SUFFERING FROM PARESIS SPASTICA, EXAMINED BY MEANS OF X-RAYS.
A V Gastel-Jansen G H Frederick
Vet Rec 74(46) 1260-1263, 1 REF.
17 Nov 1962 41.8 V641
Cattle, Paresis.

7319-68
CONFERENCES APPRAISE HOG CHOLERA ERADICATION EFFORTS.
G H Geyer
Amer Vet Med Ass J 147(6) 680-681
15 Sep 1965 41.8 AM3
Germ-free life, Hog cholera, Immunization, Swine.

7320-68
PARAFILARIA MULTIPAPILLOSA IN THE HORSE.
T E Gibson G A Pepin P J N Pinsent
Vet Rec 76(28) 774-777, 16 REFS.
11 Jul 1964 41.8 V641
Griseofulvin, Horses, Ringworm.

7321-68
THE CONTROL OF NEMATODIRUS FILLICOLLIS INFECTION BY STRATEGIC ANTHELMINTIC MEDICATION.
T E Gibson
Vet Rec 76(11) 295-296, 4 REFS.
14 Mar 1964 41.8 V641
Bephenium hydroxynaphthoate, Nematodiasis, Sheep.

7322-68
GROUNDNUT TOXICITY ASPERGILLUS FLAVUS TOXIN (AFLATOXIN) IN ANIMAL PRODUCTS.
W W C Gibson
Vet Rec 74(32) 884, 7 REFS.
11 Aug 1962 41.8 V641
Aflatoxin, Peanuts.

7323-68
GROUNDNUT TOXICITY.
W W C Gibson
Vet Rec 74(36) 981, 6 REFS.
08 Sep 1962 41.8 V641
Aflatoxin, Feed, Hyperkeratosis, Peanuts.

7324-68
THE ENTEROPATHOGENIC EFFECT OF ESCHERICHIA COLI IN RABBITS AND PIGS.
M Gitter
Brit Vet J 123 (9), 403-409 REF
Sep 1967 41.8 V643
Autopsies, Escherichia coli, Genetics, Hog cholera, Immunization, Rabbits, Swine.

7325-68
UNUSUAL CEREBELLAR CONDITIONS IN PIGS. PART II. CEREBELLAR HYPOPLASIA IN PIGS.
M Gitter P D G Bowen
Vet Rec 74(43) 1152-1154, 16 REFS.
27 Oct 1962 41.8 V641
Hypoplasia, Swine.

7326-68
UNUSUAL CEREBELLAR CONDITIONS IN PIGS. PART 1. CEREBELLAR HERNIATION ASSOCIATED WITH VITAMIN A DEFICIENCY.
M Gitter
Vet Rec 74(43) 1150-1152, 6 REFS.
27 Oct 1962 41.8 V641
Avitaminosis, Bernia, Swine, Vitamin A.

7327-68
BRUSH TECHNIQUE FOR DETECTION OF FUNGUS DISEASES.
H C Goldberg
Amer Vet Med Ass J 147(8) 845
15 Oct 1965 41.8 AM3
Animal vectors, Brush technique, Culture media, Fungus diseases (animals).

7328-68
CYPRESS POISONING.
C M Gould
Vet Rec 74(26) 743, 1 REF.
30 Jun 1962 41.8 V641
Cattle, Cupressus, Poisoning.

7329-68
INTENSIVE VEAL PRODUCTION AND A HITHERTO UNTRIED NITROFURAN- A PRELIMINARY TRIAL.
W V Gray
Vet Rec 74(22) 628-630
02 Jun 1962 41.8 V641
Calves, Escherichia coli bacterins, Nitrofurans, Veal.

7330-68
SYMPOSIUM ON CALF DISEASES.
B J Green
Vet Rec 76(39) 1102
26 Sep 1964 41.8 V641
Calves, Livestock diseases.

7331-68
SALMONELLA AND THE U.S. MEAT INDUSTRY ACTION AND REACTION.
R A Greenberg
Amer Vet Med Ass J 147(6) 675
15 Sep 1965 41.8 AM3
Meat packing industry, Salmonellosis, Sanitation.

7332-68
OBSERVATIONS ON AN AVIAN STRAIN OF PASTEURELLA HAEMOLYTICA.
L W Greenham T J Hill
Vet Rec 74(31) 861-863, 19 REFS., 2 TABS.
04 Aug 1962 41.8 V641
Culture media, Fowl cholera, Poultry.

7333-68
THE PATHOGENESIS OF GASTRO-ENTERITIS ASSOCIATED WITH ESCHERICHIA COLI.
D W Gregory
Vet Rec 76(6) 185-186
08 Feb 1964 41.8 V641
Bacteria, Gastroenteritis.

7334-68
EQUINE VIRAL ABORTION IN WESTERN MONTANA.
W J Hadlow J K Ward
Amer Vet Med Ass J 142(5) 506-509
01 Mar 1963 41.8 AM3
Abortion, Fetal death.

7335-68
LACTOGENIC IMMUNITY TO TRANSMISSIBLE GASTROENTERITIS OF SWINE.
E O Haelterman
Amer Vet Med Ass J 147(12) 1661
15 Dec 1965 41.8 AM3
Gastroenteritis, Immunization, Luteotropin, Swine.

7336-68
SUSPECTED MYASTHENIA GRAVIS IN A DOG.
L W Hall R G Walker
Vet Rec 74(17) 501-503, 5 REFS.
28 Apr 1962 41.8 V641
Animal diseases, Dogs, Muscles, Succinylcholine chloride.

7337-68
GASTRIC DYSPEPSIA IN CALVES.
S A Hall
Vet Rec 74(29) 814-816, 7 REFS., 1 TAB.
21 Jul 1962 41.8 V641
Calves, Indigestion.

7338-68
A PRACTITIONER S MASTITIS CONTROL PROGRAM.
C J Haller
Amer Vet Med Ass J 147(4) 346-349
15 Aug 1967 41.8 AM3
Dairy cattle, Mastitis, Pregnancy.

7339-68
EFFECT OF PASTEURELLA BACTERIN ON MORTALITY AND PNEUMONIA IN LAMBS.
A H Hamdy W D Pounden D S Bell
Amer Vet Med Ass J 142(4) 379-381, 4 TABS
15 Feb 1963 41.8 AM3
Bacterins, Lambs, Mortality, Pasteurella bacterins, Pneumonia.

7340-68
A HAEMOLYTIC COCCO-BACILLUS RECOVERED FROM POULTRY.
J F Harbourne
Vet Rec 74(19) 566-567
12 May 1962 41.8 V641
Enteritis, Poultry, Pullorum disease.

7341-68
CONGENITAL DETACHMENT OF THE PROCESSUS ANCONEUS IN THE DOG.
W C D Hare
Vet Rec 74(18) 545-546
05 May 1962 41.8 V641
Bone dislocation, Dogs.

7342-68
EFFECT OF FEEDING VARIOUS LEVELS CROTALARIA SPECTARILIS SEED ON THE PERFORMANCE OF CHICKS, TURKEYS, AND PULLETS.
R H Harms P W Waldroup C F Simpson
Amer Vet Med Ass J 142(3) 260-263, 4 TABS.
01 Feb 1963 41.8 AM3
Animal nutrition, Chickens, Crotalaria, Seeds, Turkeys.

7343-68
SOME CONGENITAL ABNORMALITIES IN THE BEAKS AND SKULLS OF WILDFOWL.
J Harrison J Kear
Vet Rec 74(22) 632-633, 6 REFS.
02 Jun 1962 41.8 V641
Abnormalities, Beak, Game birds.

7344-68
FACTORS INFLUENCING THE SURVIVAL OF COLIFORMS IN THE DUST OF DEEP LITTER HOUSES.
E G Barry L A Hemsley
Vet Rec 76(32) 863-867, 6 REFS., 2 TABS.
08 Aug 1964 41.8 V641
Bacteria, Formaldehyde, Poultry, Poultry houses.

7345-68
A HAEMOLYTIC COCCOBACILLUS RECOVERED FROM POULTRY.
E G Barry
Vet Rec 74(22) 640, 1 REF.
02 Jun 1962 41.8 V641
Poultry, Virus diseases.

7346-68
THE ASSESSMENT OF THE VALUE OF TOPICAL APPLICATIONS FOR THE TREATMENT OF CONTAGIOUS FOOT-ROT IN SHEEP, WITH PARTICULAR REFERENCE TO DICHLOROPHEN.
C R Bart J C Malone W H Sparrow
Vet Rec 74(14) 416-420, 6 REFS., 8 TABS.
07 Apr 1962 41.8 V641
Dichlorophene, Foot rot (animals), Sheep.

7347-68
THE INFLUENCE OF PHYSICAL FORM OF ROUGHAGES AND ANTIBIOTIC ADMINISTRATION ON PERFORMANCE, CARCASS CHARACTERISTICS, HEALTH, OF THE RUMEN EPITHELIUM, RUMEN VOLATILE FATTY ACIDS AND LIVER ABSCESSES OF STEERS FED ALL-CONCENTRATE RATIONS.
R W Harvey
Diss Abstr Sect B 27 (12,PT.1), 4187B-4188B
Jun 1967 Z5055.U49D53
Abscesses, Antibiotics, Beef cattle, Carcasses, Chlortetracycline, Epithelium, Fatty acids, Feed concentrates, Liver diseases, Roughage, Rumen.

7348-68
CERVICAL AND UTERINE INFECTION IN THOROUGHBRED MARES.
C S Haselden J A Cunningham S A Glendinning
Vet Rec 76(28) 791
11 Jul 1964 41.8 V641
Thoroughbred horses, Uterus.

7349-68
EXPERIMENTAL PRODUCTION AND CONTROL OF UROLITHIASIS.
W W Hawkins
Amer Vet Med Ass J 147(12) 1321-1323
15 Dec 1965 41.8 AM3
Livestock diseases, Urinary calculi, Urolithiasis.

7350-68
AMINOPHYLLINE POISONING IN DOGS.
D L Raxby
Vet Rec 74(30) 832, 1 REF.
28 Jul 1962 41.8 V641
Caffeine, Dogs, Poisoning.

7351-68
CHEMICAL CHANGES IN NERVES FROM BIRDS AFFECTED BY FOWL PARALYSIS.
P J Heald H G Radman B F Frunival P A L Wight
Poultry Sci 43(3) 701-710
May 1964 47.8 AM33P
Avian lymphomatosis, Chickens, Nerves.

7352-68
STATUS OF INACTIVATED VACCINES FOR HOG CHOLERA.
J M Hejl
Amer Vet Med Ass J 142(2) 127-129
15 Jan 1963 41.8 AM3
Hog cholera, Immunization, Inactivated vaccines, Swine.

7353-68
HISTOMONIASIS (BLACKHEAD) IN BROILER CHICKENS.
L A Hemsley
Vet Rec 76(37) 1017-1018, 1 TAB.
12 Sep 1964 41.8 V641
Blackhead, Chickens.

7354-68
MYODEGENERATION IN CATTLE GRAZING CASSIA SPECIES.
J H Benson J W Dollahite C H Bridges R R Rao
Amer Vet Med Ass J 147(2) 142-145, 2 PLS.
15 Jul 1965 41.8 AM3
Cassia, Cattle, Myodegeneration.

7355-68
A SIMPLE TEST FOR BOVINE LIVER DYSFUNCTION.
J C Hindson
Vet Rec 74(34) 922-923
25 Aug 1962 41.8 V641
Cattle, Liver function tests.

7356-68
INFECTIOUS BRONCHITIS VIRUS TYPES--INCIDENCE IN THE UNITED STATES.
Amer Vet Med Ass J 147(12) 1671
15 Dec 1967 41.8 AM3
Infectious bronchitis, Poultry, Serological tests, United states.

7357-68
DISINFECTED WATER SUPPRESSES PSEUDOMONAS IN MICE.
W G Hoag
Amer Vet Med Ass J 147(10) 1127
15 Nov 1965 41.8 AM3
Mice, Pseudomonas, Water.

7358-68
ISOLATION OF MYCOPLASMA SP. FROM THE OVIDUCTS OF DAIRY COWS.
M Roare D A Raig
Vet Rec 76(35) 956-957, 4 REFS.
29 Aug 1964 41.8 V641
Dairy cattle, Fertility, Mycoplasmosis.

7359-68
INFECTIOUS BRONCHITIS VIRUS- TISSUE DISTRIBUTION.
M S Rofstad
Amer Vet Med Ass J 147(12) 1671
15 Dec 1965 41.8 AM3
Infectious bronchitis, Poultry, Virus diseases (animals).

7360-68
SUSPECTED SKELETAL SCURVY IN THE DOG.
J R Holmes
Vet Rec 74(29) 801-813, 16 REFS., 6 TABS.
21 Jul 1962 41.8 V641
Ascorbic acid, Bone diseases, Dogs, Scurvy.

7361-68
SOME EXAMPLES OF SECONDARY CIRCULATORY DYSFUNCTION IN CATTLE.
J R Holmes
Vet Rec 74(20) 569-573, 1 REF., 3 TABS.
19 May 1962 41.8 V641
Cattle, Circulatory system.

7362-68
OSTEOGENESIS IMPERFECTA IN LAMBS.
J R Holmes J R Baker E T Davies
Vet Rec 76(36) 980-984, 17 REFS., 1 TAB.
05 Sep 1964 41.8 V641
Bone diseases, Lambs.

7363-68
URETHRAL CALCULI IN A STEER.
J W H Holmes E P Nelson
Vet Rec 76(12) 343
21 Mar 1964 41.8 V641
Cattle, Urinary calculi.

7364-68
AN OUTBREAK OF SALMONELLA PULLORUM INFECTION IN TURKEY POULTS.
R G Holmes
Vet Rec 74(39) 1046-1047, 4 REFS.
29 Sep 1962 41.8 V641
Poults, Salmonellosis.

7365-68
EFFECT OF FLUORIDES IN CATTLE.
B Boogstratten
Amer Vet Med Ass J 147(5) 498
01 Sep 1965 41.8 AM3
Cattle, Fluorides, Sodium fluoride.

7366-68
SURGICAL INTERFERENCE IN TORSION OF THE CANINE STOMACH.
D L Hopkins
Vet Rec 74(23) 667-668
09 Jun 1962 41.8 V641
Dogs, Stomach.

7367-68
A CASE OF ERYSIPELOTHRIX MONOCYTOGENES (LISTERIA MONOCYTOGENES) IN THE CAT.
W P Bowat
Vet Rec 74(29) 821-822
21 Jul 1962 41.8 V641
Cats, Listeriosis.

7368-68
EFFECT OF REVACCINATION ON DISTEMPER ANTIBODY LEVELS.
D G Bowell
Vet Rec 76(6) 184-185, 2 REFS.
08 Feb 1964 41.8 V641
Antibodies, Canine distemper, Immunity.

7369-68
SUSPECTED SYNTHETIC OESTROGEN POISONING IN MINK.
J M Bowell C M Pickering
Vet Rec 76(6) 169-170, 5 REFS. 1 TAB.
08 Feb 1964 41.8 V641
Estrogens, Minks, Poisoning, Sterility.

7370-68
CALCIFICATION OF THE ADRENAL GLANDS IN A DOG.
J McC Howell A N Crmrod
Vet Rec 74(16) 469-472, 6 REFS.
21 Apr 1962 41.8 V641
Adrenal glands, Calcification (physiological), Dogs.

7371-68
A CASE OF DISTENSION OF THE OMASUM.
W A Hughes J R Cartwright
Vet Rec 74(24) 676-677
16 Jun 1962 41.8 V641
Cattle, Omasum, Peritonitis.

7372-68
SUSPECTED SKELETAL SCURVY IN THE DOG.
G C Hunt
Vet Rec 74(44) 1190-1191
03 Nov 1962 41.8 V641
Dogs, Scurvy, Vitamin C.

7373-68
SURGICAL TREATMENT OF CHRONIC OTITIS IN A POODLE.
J Iffey
Vet Rec 76(7) 203
15 Feb 1964 41.8 V641
Otitis, Poodle dogs, Surgery.

7374-68
BACTERIAL GASTRO-ENTERITIS OUTBREAKS IN CATS.
J Iffey
Vet Rec 76(4) 132-133
25 Jan 1964 41.8 V641
Bacteria, Cats, Gastroenteritis.

7375-68
SALMONELLOSIS IN SLAUGHTERHOUSES IN ISRAEL.
Z Imre A Shomrony E Eylon
Amer Vet Med Ass J 147(6) 677
15 Sep 1965 41.8 AM3
Gastroenteritis, Israel, Salmonellosis, Slaughterhouses.

7376-68
A POSSIBLE CASE OF PURPURA HAEMORRHAGICA IN A DOG.
M Irfan
Vet Rec 74(34) 923-924
25 Aug 1962 41.8 V641
Dogs, Purpura hemorrhagica.

7377-68
EOSINOPHILS OF DOGS.
M Irfan
Vet Rec 76(5) 163-164, 5 REFS.
01 Feb 1964 41.8 V641
Dogs, Eosinophils.

7378-68
TWO-DAY TREATMENT WITH THIACETARSAMIDE FOR CANINE HEARTWORM DISEASE.
R F Jackson
Amer Vet Med Ass J 142(1) 23-26, 4 TABS.
01 Jan 1963 41.8 AM3
Canine heartworm disease, Dirofilaria, Thiacetarsamide.

7379-68
BOVINE LYMPHOSARCOMA.
C J Johanns
Amer Vet Med Ass J 147(4) 381-382
15 Aug 1965 41.8 AM3
Cattle, Lymphosarcoma, Neoplasms.

7380-68
ISOLATION OF A VIRUS FROM A CONDITION SIMULATING FELINE PANLEUCOPAENIA IN A LEOPARD.
R H Johnson
Vet Rec 76(37) 1008-1013, 11 REFS., 1 TAB.
12 Sep 1964 41.8 V641
Feline infectious enteritis, Wildlife.

7381-68
FOWLPOX VIRUS FROM CHICKENS WITH HEMORRHAGIC TRACHEITIS.
B C Johnstone J D Russell
Amer Vet Med Ass J 147(12) 1675
15 Dec 1965 41.8 AM3
Chickens, Fowlpox virus, Hemorrhagic tracheitis.

7382-68
MICROBIOLOGICAL STUDIES ON A NEW PENICILLIN, BRL 1621.
A Jones H M Bagley L M Cleverly
Vet Rec 74(42) 1113-1120, 5 REFS., 5 TABS.
20 Oct 1962 41.8 V641
Bacteria, Penicillin.

7383-68
ABOMASAL IMPACTION.
R S Jones B M Pirie
Vet Rec 74(20) 582-583, 6 REFS.
19 May 1962 41.8 V641
Abnormalities, Abomasum, Dairy cattle.

7384-68
SEMINAL VESTICULITIS IN BULLS ASSOCIATED WITH INFECTION BY ACTINOBACILLUS ACTINOIDES.
T H Jones A D Osborne R R Ashdown
Vet Rec 76(2) 24-28, 13 REFS., 3 TABS.
11 Jan 1964 41.8 V641
Actinophages, Bulls, Seminal vesicles.

7385-68
AN OUTBREAK OF ACUTE DISEASE IN CHESTER ZOO DIAGNOSED AS ANTHRAX.
W J Jordan
Vet Rec 76(35) 927-930, 6 REFS.
29 Aug 1964 41.8 V641
Animals, Anthrax, Penicillin.

7386-68
A CLINICIAN S VIEW OF CANINE VIRUS DISEASES.
J O Joshua
Vet Rec 74(21) 599-604, 1 REF.
26 May 1962 41.8 V641
Canine distemper virus, Dogs, Infectious canine hepatitis.

7387-68
ANAPLASMOSIS CONTROL PREVENTING THE INTRODUCTION AND SPREAD IN ANAPLASMOSIS-FREE AREAS.
G S. Kaley
Amer Vet Med Ass J 147(12) 1565-1566
15 Dec 1965 41.8 AM3
Anaplasmosis, Cattle, Insect vectors, Ixodides.

7388-68
VITAMIN D-INDUCED CALCIUM BINDING FACTOR IN RAT INTESTINAL MUCOSA.
F A Kallfelz A N Taylor R H Wasserman
Soc Exp Biol Med Proc 125 (1), 54-58 REF
May 1967 442.9 S01
Calcium, Intestines, Rats, Vitamins.

7389-68
INCIDENCE OF MASTITIS IN COWS AND BUFFALOES IN NORTH WEST INDIA.
D S Kalra M R Dhanda
Vet Rec 76(8) 219-222, 10 REFS., 6 TABS.

22 Feb 1964 41.8 V641
Buffaloes, Dairy cattle, Mastitis.

7390-68
DURATION OF IMMUNITY AGAINST NEWCASTLE DISEASE IN CHICKS VACCINATED WITH BETA-PROPIOLACTONE INACTIVATED VACCINE.
S A Keeble C R Coid
Vet Rec 74(41) 1112, 6 REFS.
13 Oct 1962 41.8 V641
Chickens, Immunity, Newcastle disease, Newcastle disease vaccines.

7391-68
XANTHOMATOSIS IN LAYING HENS - A CASE REPORT.
K K Kellogg
Poultry Sci 43(3) 777-778
May 1964 47.8 AM33P
Aspergillus, Chickens, Feed, Xanthomatosis.

7392-68
PATHOLOGY OF THE NORTHERN FUR SEAL.
M C Keyes
Amer Vet Med Ass J 147(10) 1090-1095, 18 REFS.
15 Nov 1965 41.8 AM3
Callorhinus, Pathology.

7393-68
CURRENT DISEASE PROBLEMS OF HORSES.
H C King R C Knowles
Amer Vet Med Ass J 147(12) 1556-1562
15 Dec 1965 41.8 AM3
Equine infectious anemia, Equine influenza, Horses, Livestock diseases, Piroplasmosis.

7394-68
MALFORMED CALF SYNDROME ON KODIAK ISLAND, ALASKA.
J A King
Amer Vet Med Ass J 147(3) 239
01 Aug 1965 41.8 AM3
Animal nutrition, Lupine, Malformed calf syndrome.

7395-68
STUDIES ON MYXOVIRUS PARAINFLUENZA-3 VACCINE FOR PREVENTION OF SHIPPING FEVER IN CATTLE.
N B King C Gale
Amer Vet Med Ass J 142(8) 881-883
15 Apr 1963 41.8 AM3
Cattle, Immunization, Myxoviruses, Parainfluenza-3 vaccines, Shipping fever.

7396-68
THE USE OF CHEMOTHERAPEUTIC AGENTS IN ANIMAL TUBERCULOSIS.
H H Kleeberg
Veterinarian +oxford+ 4 (4), 197-211 REF
Aug 1967 41.8 V6467
Cattle, Drug therapy, Tuberculosis.
Abstract included.

7397-68
THE PRENATAL MIGRATION OF TOXOCARA CANIS LARVAE AND THEIR RELATIONSHIP TO INFECTION IN PUPS.
F R Kloutz B F Groves M W Scothorn
Amer Vet Med Ass J 147(12) 1663-1664
15 Dec 1965 41.8 AM3
Dogs, Fetal death, Pregnancy, Toxocara.

7398-68
EPIZOOTIOLOGY OF BOVINE MYXOVIRUS PARAINFLUENZA 3(SF-4) IN NEBRASKA CATTLE AS DETERMINED BY ANTIBODY TITERS.
L L Kramer R L Sweat G A Young
Amer Vet Med Ass J 142(4) 375-378
15 Feb 1963 41.8 AM3
Cattle, Epizootic diseases, Myxoviruses, Nebraska, Parainfluenza-3 virus, Respiratory diseases.

7399-68
A CASE OF TRAUMATIC UTERINE RUPTURE IN A HEIFER.
G B Lamont R G E Young
Vet Rec 74(24) 677
16 Jun 1962 41.8 V641
Cattle, Hernia, Uterus.

7400-68
BACTERIAL GASTRO-ENTERITIS IN CATS.
B A Langman
Vet Rec 76(6) 190, 1 REF.
08 Feb 1964 41.8 V641
Bacteria, Cats, Gastroenteritis.

7401-68
THE CONTROL OF AN OUTBREAK OF SALMONELLA DUBLIN IN CALVES.
A Leason
Vet Rec 76(6) 172
08 Feb 1964 41.8 V641
Antibiotics, Calves, Salmonellosis.

7402-68
ANTHRAX VACCINATION.
W B Lindley
Amer Vet Med Ass J 142(6) 621-623, 17 REFS.
15 Mar 1963 41.8 AM3
Anthrax, Bacillus, Immunization, Intradermal anthrax vaccine.

7403-68
ROLE OF AGGREGATED BOVINE SERUM ALBUMIN IN PATHOGENESIS OF SERUM SICKNESS NEPHRITIS IN RABBITS.
D S Lirenman A J Fish R A Good
Soc Exp Biol Med Proc 125 (1), 231-234 REF
May 1967 442.9 SO1
Blood, Nephritis, Rabbits.

7404-68
FOOT-ROT IN FEEDING SHEEP.
A I Littlejohn
Vet Rec 76(27) 741-742, 3 REFS., 2 TABS.
04 Jul 1964 41.8 V641
Foot rot (animals), Formaldehyde, Sheep.

7405-68
HEPATITIS CYSTICERCOSA CAUSING SUDDEN DEATH IN A PIG.
T S Lloyd
Vet Rec 76(38) 1080
19 Sep 1964 41.8 V641
Hepatitis, Swine.

7406-68
THE PRESENCE OF AFLATOXIN IN A SAMPLE OF COTTON-SEED CAKE.
R M Loosmore R Allcroft E A Tutton R B A Carnaghan
Vet Rec 76(2) 64-65, 2 REFS.
11 Jan 1964 41.8 V641
Aflatoxin, Cattle.

7407-68
A SWINE BRUCELLOSIS EPIZOOTIC.
D W Luchsinger R K Anderson D F Werring
Amer Vet Med Ass J 147(6) 632-636
15 Sep 1965 41.8 AM3
Brucella, Brucellosis, Epizootic diseases, Swine.

7408-68
PYOMETRA IN THE LIONESS (PANTHERA LEO).
V M Lucke
Vet Rec 74(45) 1225-1227, 5 REFS.
10 Nov 1962 41.8 V641
Metritis, Predatory animals.

7409-68
OBSERVATIONS ON THE EFFECTS OF FLIES AND HUMIDITY ON THE NATURAL LESIONS OF STREPTOTHRICOSIS.
I Macadam
Vet Rec 76(7) 194-198, 12 REFS., 1 TAB.
15 Feb 1964 41.8 V641
Cattle, Streptotrichosis.

7410-68
AN OUTBREAK OF AUJESZKY DISEASE IN PIGS IN LINCOLNSHIRE.
R R Mackay J T Done R Burrows
Vet Rec 74(24) 669-672, 4 REFS., 3 TABS.
16 Jun 1962 41.8 V641
Pseudorabies, Swine.

7411-68
DYSPEPSIA IN CALVES.
N S M Macleod
Vet Rec 74(33) 906-907
18 Aug 1962 41.8 V641
Calves, Indigestion.

7412-68
SALMONELLA PULLORUM INFECTIONS IN TURKEYS.
T B Mann
Vet Rec 77(41) 1111
13 Oct 1962 41.8 V641
Salmonellosis, Turkeys.

30 7413-68

7413-68
THE CHARACTERIZATION OF A CAUSITIVE AGENT OF VIRUS PIG PNEUMONIA.
C J Mare W P Switzer
Amer Vet Med Ass J 147(12) 1662
15 Dec 1965 41.8 AM3
Culture media, Immunization, Swine, Virus pneumonia.

7414-68
DIPHENOXYLATE A USEFUL DRUG IN THE SYMPTOMATIC TREATMENT OF ACUTE AND CHRONIC DIARRHOEA IN DOMESTIC AND WILD ANIMALS.
R Marsboom C Hofkens J Mortelmans J Vercruysse
Vet Rec 74(39) 1043-1046, 9 REFS., 3 TABS.
29 Sep 1962 41.8 V641
Animals, Diarrhea, Phenols.

7415-68
ULCERATION OF COW S TEATS CAUSED BY A VIRUS.
W B Martin B Martin I M Lauder
Vet Rec 76(1) 15-16, 3 REFS.
04 Jan 1964 41.8 V641
Dairy cattle, Teats, Ulcers, Viruses.

7416-68
TICK-BORNE FEVER IN EAST AFRICA.
B A Matson E T R Evans
Vet Rec 74(28) 799, 1 REF.
14 Jul 1962 41.8 V641
Cattle, Piroplasmosis.

7417-68
AN EVALUATION OF SOME RAPID TESTS ON MILK FOR THE EARLY DETECTION OF BOVINE KETOSIS.
P A Mayes
Vet Rec 74(31) 848-849, 8 REFS., 1 TAB.
04 Aug 1962 41.8 V641
Ketosis, Milk analysis.

7418-68
PYLORIC STENOSIS IN THE DOG.
J McCaig
Vet Rec 74(41) 1101-1102, 7 REFS.
13 Oct 1962 41.8 V641
Dogs, Pyloric stenosis.

7419-68
A CASE OF RETENTION PYONEPHROSIS IN A CORGI BITCH.
B J McCarthy K T E Perry
Vet Rec 74(18) 537-538
05 May 1962 41.8 V641
Dogs, Hydronephrosis, Urinary calculi.

7420-68
RADIOSTRONTIUM TOXICITY IN MINIATURE SWINE.
R O McClellan J L Palotay W J Clarke G Vogt H A Ragan
Amer Vet Med Ass J 147(12) 1670
15 Dec 1965 41.8 AM3
Radioisotopes, Swine.

7421-68
TUBERCULOSIS IN DEER.
A McDiarmid
Amer Vet Med Ass J 147(10) 1098
15 Nov 1965 41.8 AM3
Animal vectors, Deer, Tuberculosis.

7422-68
ABORTION AND INFERTILITY IN SOWS IN IRELAND APPARENTLY DUE TO INFECTION BY LEPTOSPIRA CANICOLA.
B A McErlean
Vet Rec 76(9) 248-250, 9 REFS., 4 TABS.
29 Feb 1964 41.8 V641
Abortion, Leptospirosis, Sterility, Swine.

7423-68
TOXICITY OF NITRATE NITROGEN TO CATTLE.
P K McIlwain I A Schipper
Amer Vet Med Ass J 142(5) 502-505, 33 REFS.
01 Mar 1963 41.8 AM3
Cattle, Escherichia, Nitrogen, Thyroid gland.

7424-68
SALMONELLA RESISTANCE INCREASES.
K A McKay
Amer Vet Med Ass J 147(9) 932
01 Nov 1965 41.8 AM3
Antibiotics, Chloramphenicol, Chlorhexidine, Neomycin, Nitrofurazone, Resistant strains, Salmonellosis, Streptomycin, Tetracycline.

7425-68
IMMUNOLOGIC AND EPIZOOTIOLOGIC STUDIES OF EPIZOOTIC BOVINE ABORTION.
D G McKercher E M Wada E A Robinson J A Howarth
Amer Vet Med Ass J 147(12) 1666-1667
15 Dec 1965 41.8 AM3
Abortion, Cattle, Epizootic diseases, Immunization.

7426-68
FLUORESCENT ANTIBODY DETECTS CARRIERS OF VIBRIOS.
P W Mellick
Amer Vet Med Ass J 147(9) 957
01 Nov 1965 41.8 AM3
Vibrio.

7427-68
METASTATIC CALCIFICATION INDUCED BY HYTAKEROL IN CHICKENS INFECTED WITH PLASMODIUM GALLINACEUM.
T I Mercado T von Brand
Poultry Sci 43(1) 222-232
Jan 1964 47.8 AM33P
Calcification (physiological), Chickens, Dihydrotachysterol, Hytakerol, Plasmodium.

7428-68
ABORTION IN THE SOW DUE TO INFECTION BY LEPTOSPIRA CANICOLA - A PRELIMINARY REPORT.
S W Michna
Vet Rec 74(34) 917-919, 17 REFS., 2 TABS.
25 Aug 1962 41.8 V641
Abortion, Leptospirosis, Swine.

7429-68
PYLORIC STENOSIS IN THE DOG.
E R Miller
Vet Rec 74(43) 1168
27 Oct 1962 41.8 V641
Dogs, Pyloric stenosis.

7430-68
TO VETERINARY SURGEONS IN EQUINE PRACTICE SURVEY OF UTERINE INFECTIONS.
W C Miller
Vet Rec 76(2) 65-67
11 Jan 1964 41.8 V641
Animal diseases, Horses, Uterus.

7431-68
CARDIOVASCULAR DISEASE IN HORSES.
W C Miller
Vet Rec 74(30) 825-828, 8 REFS.
28 Jul 1962 41.8 V641
Circulatory system, Horses.

7432-68
UTERINE INFECTIONS IN MARES--1964 SURVEY.
W C Miller
Vet Rec 76(8) 235
22 Feb 1964 41.8 V641
Animal diseases, Horses, Uterus.

7433-68
DISEASE CONTROL IN AFRICA.
Vet Rec 74(17) 518-519
28 Apr 1962 41.8 V641
Cattle, Livestock diseases.

7434-68
A FLUORESCENT ANTIBODY STUDY OF INFECTIOUS BRONCHITIS VIRUS.
S B Mohanty H M DeVolt J E Faber
Poultry Sci 43(1) 179-182
Jan 1964 47.8 AM33P
Fluorescent antibody technic, Infectious bronchitis virus.

7435-68
PULMONARY ASPERGILLOSIS IN A COW.
J A Molello W Busey
Amer Vet Med Ass J 142(6) 632-633, 4 PLS.
15 Mar 1963 41.8 AM3
Aspergillosis, Aspergillus, Cattle, Pneumomycosis.

7436-68
THE PATHOGENISIS OF DIARRHEA IN THE NEWBORN CALF, WITH SPECIAL REFERENCE TO PHYSIOLOGIC FUNCTIONS AND ENVIRONMENTAL CONDITIONS.
T Moll
Amer Vet Med Ass J 147(12) 1364-1366
15 Dec 1967 41.8 AM3
Calves, Diarrhea, Environment, Escherichia, Physiology.

7437-68
IRON DEFICIENCY ANEMIA AS A CAUSE OF STILLBIRTHS IN SWINE.
R W Moore H E Redmond C W Livingston
Amer Vet Med Ass J 147(7) 746-748
01 Oct 1965 41.8 AM3
Anemia, Fetal death, Iron sulfates, Swine.

7438-68
SALMONELLOSIS A SERIOUS OUTBREAK IN A DAIRY HERD.
D H Morten
Vet Rec 74(14) 423-425, 1 TAB.
07 Apr 1962 41.8 V641
Copper sulfate, Dairy cattle, Salmonellosis.

7439-68
FELINE DERMATOLOGY.
J E Mosier
Amer Vet Med Ass J 147(12) 1447-1453
15 Dec 1965 41.8 AM3
Animal nutrition, Cats, Dermatology.

7440-68
A REPORT ON THE DOSAGE OF PENTOBARBITONE SODIUM REQUIRED TO INDUCE ANAESTHESIA IN FERRETS.
J P Moss
Vet Rec 74(26) 742-743, 1 REF., 2 TABS.
30 Jun 1962 41.8 V641
Anesthesia, Ferrets, Pentobarbital sodium.

7441-68
ACUTE PULMONARY EMPHYSEMA IN CATTLE.
J E Moulton C E Cornelius B I Osburn
Amer Vet Med Ass J 142(2) 133-137
15 Jan 1963 41.8 AM3
Cattle, Pulmonary emphysema.

7442-68
PROPHYLACTIC USE OF FRAMYCETIN SULPHATE IN CALVES.
P A Mullen
Vet Rec 76(34) 920-922, 1 REF.
22 Aug 1964 41.8 V641
Antibiotics, Calves, Enteritis.

7443-68
WHITE MUSCLE DISEASE, A SELENIUM-RESPONSIVE MYOPATHY.
O H Muth
Amer Vet Med Ass J 142(3) 272-277, 64 REFS.
01 Feb 1963 41.8 AM3
Calves, Lambs, Myopathy, Selenium, White muscle disease.

7444-68
EFFECT OF MELATONIN ON THYROID HORMONE SECRETION RATE AND FEED CONSUMPTION OF FEMALE RATS.
G D Narang D V Singh C W Turner
Soc Exp Biol Med Proc 125 (1), 184-188 REF
May 1967 442.9 SO1
Feeding, Hormones, Melatonin, Rats, Thyroid gland.

7445-68
IDENTIFICATION OF MYCOPLASMA GALLISEPTICUM IN LESION TISSUE BY IMMUNOFLUORESCENCE.
J K Noel H M DeVolt J E Faber
Poultry Sci 43(1) 145-153
Jan 1964 47.8 AM33P
Chickens, Chronic respiratory disease, Fluorescent antibody technic, Mycoplasma, Pleuropneumonia-like organisms, Turkeys.

7446-68
TOXICITY OF SOME HYDRAZINE TRANQUILLISERS TO DOGS.
P R B Noel A C Palmer
Vet Rec 74(24) 692
16 Jun 1962 41.8 V641
Dogs, Hydrazine, Monoamine oxidase, Poisoning.

7447-68
SWINE FEVER IN TWO PROGENY TESTING STATIONS.
J D P O Brien
Vet Rec 74(44) 1193
03 Nov 1962 41.8 V641
Hog cholera.

7448-68
FELINE CRYPTOCOCCOSIS.
H J Olander H Reed A C Pier
Amer Vet Med Ass J 142(2) 138-143, 7 TABS.
15 Jan 1963 41.8 AM3
Cats, Cryptococcosis, Cryptococcus.

7449-68
METALDEHYDE POISONING.
R G Orton
Vet Rec 74(21) 617
26 May 1962 41.8 V641
Cats, Dogs, Metaldehyde, Poisoning.

7450-68
THE DIFFERENTIAL DIAGNOSIS OF BONE TUMOURS IN THE DOG.
L N Owen
Vet Rec 74(15) 439-446, 13 REFS.
14 Apr 1962 41.8 V641
Dogs, Sarcoma.

7451-68
STUDIES ON COCCIDIOSIS AND VITAMINA NUTRITION OF BROILERS.
B Panda G F Combs H M DeVolt
Poultry Sci 43(1) 154-164
Jan 1964 47.8 AM33P
Chickens, Coccidiosis, Liver, Vitamin A.

7452-68
APPARENT CANINE DISTEMPER CAUSED BY KLEBSIELLA ORGANISMS.
J Parker
Vet Rec 76(33) 900
15 Aug 1964 41.8 V641
Bacteriophages, Canine distemper, Dogs.

7453-68
EMPHYSEMA WITH CARDIAC EMBASSMENT IN CALVES.
W H Parker
Vet Rec 74(43) 1168
27 Oct 1962 41.8 V641
Calves, Emphysema.

7454-68
PATTERN OF MORTALITY IN AVIAN NEPHROSIS.
R T Parkhurst
Poultry Sci 43(3) 788-790
May 1964 47.8 AM33P
Avian nephrosis, Chickens, Mortality.

7455-68
GROUNDNUT TOXICITY AS THE CAUSE OF EXUDATIVE HEPATITIS (OEDEMA DISEASE) OF GUINEA-PIGS.
J S Paterson J C Crook A Shand G Lewis R Allcroft
Vet Rec 74(22) 639-640, 8 REFS., 1 TAB.
02 Jun 1962 41.8 V641
Edema disease, Guinea pigs, Peanuts, Poisoning.

7456-68
THE SPREAD OF SCRAPIE BY CONTACT BETWEEN AFFECTED AND HEALTHY SHEEP, GOATS OR MICE.
I H Pattison
Vet Rec 76(12) 333-336, 14 REFS.
21 Mar 1964 41.8 V641
Scrapie, Sheep.

7457-68
THE RESPONSES OF COWS TO EXPERIMENTALLY INDUCED HYPOCALCEMIA.
J M Payne
Vet Rec 76(3) 77-81, 5 REFS., 2 TABS.
18 Jan 1964 41.8 V641
Cattle, Milk fever.

7458-68
OBSERVATIONS ON THE BLOOD PICTURE OF CATTLE, SHEEP AND RABBITS FED ON KALE.
R H C Penny J S E David A I Wright
Vet Rec 76(38) 1053-1059, 22 REFS.
19 Sep 1964 41.8 V641
Anemia, Kale, Livestock, Rabbits.

7459-68
MYCOBACTERIUM FORTUITUM AS A CAUSE OF BOVINE MASTITIS TUBERCULIN SENSITIVITY FOLLOWING EXPERIMENTAL INFECTIONS.
K J Peterson
Amer Vet Med Ass J 147(12) 1600-1607, 15 FIGS.
15 Dec 1965 41.8 AM3
Cattle, Mastitis, Mycobacterium, Tuberculin.

7460-68
DIAGNOSIS ANTIGENS FOR THE DETECTION OF NOCARDIOSIS IN ANIMALS.
A C Pier J R Thurston
Amer Vet Med Ass J 147(12) 1668
15 Dec 1965 41.8 AM3
Antibodies, Antigens, Bacterial diseases (animals), Cattle, Nocardia, Nocardiosis.

7461-68
DURATION OF IMMUNITY TRIALS WITH BETAPROPIOLACTONE-INACTIVATED NEWCASTLE DISEASE VIRUS VACCINES.
S E Piercy A J Macleod J D Hlaxland
Vet Rec 76(39) 1084-1089, 12 REFS., 6 TABS.
26 Sep 1964 41.8 V641
Chickens, Hydracrylic acid beta-lactone, Newcastle disease vaccines.

7462-68
RESISTANCE OF EGG-ADAPTED CANINE DISTEMPER VIRUS TO FORMALIN*
S E Piercy
Vet Rec 74(20) 590, 4 REFS., 2 TABS.
19 May 1962 41.8 V641
Canine distemper virus, Formaldehyde.

7463-68
THE ECONOMIC LOSS ASSOCIATED WITH INFECTIOUS BOVINE RHINOTRACHEITIC IN A DAIRY HERD.
R E Pierson C A Vair
Amer Vet Med Ass J 147(4) 350-352
15 Aug 1967 41.8 AM3
Abortion, Dairy cattle.

7464-68
SUSPECTED SKELETAL SCURVY IN THE DOG.
J M Pinkney A M Smart
Vet Rec 74(34) 923
25 Aug 1962 41.8 V641
Ascorbic acid, Bone diseases, Dogs, Scurvy.

7465-68
PURPURA HAEMORRHAGICA IN A DOG.
J M Pinkney
Vet Rec 74(33) 905-906
18 Aug 1962 41.8 V641
Dogs, Purpura hemorrhagica.

7466-68
STUDIES ON EQUINE RESPIRATORY VIRUS.
G Plummer J B Kerry
Vet Rec 74(36) 967-970, 7 REFS., 1 TAB.
08 Sep 1962 41.8 V641
Horses, Respiratory diseases.

7467-68
SALMONELLOSIS IN ANIMALS THREATENS MAN.
J E Porter
Amer Vet Med Ass J 147(2) 141
15 Jul 1965 41.8 AM3
Animal vectors, Human nutrition, Salmonellosis.

7468-68
EFFECTS OF CORTISOL AND ADRENALECTOMY ON INDUCTION OF INTERFERON BY ENDOTOXIN.
B Postic C Deangelis M K Breinig M Ho
Soc Exp Biol Med Proc 125 (1), 89-96 REF
May 1967 442.9 SO1
Adrenal glands, Cortisol, Interferon, Newcastle disease virus, Rabbits, Vesicular stomatitis virus.

7469-68
A NOTE ON RABIES AND EUTHANASIA IN MAN.
L P Pugh
Vet Rec 74(16) 486-487
21 Apr 1962 41.8 V641
Euthanasia, Human diseases, Rabies.

7470-68
VASCULAR OCCLUSION IN A BITCH.
P J Quigley J Iffey
Vet Rec 74(25) 702
23 Jun 1962 41.8 V641
Circulatory system, Dogs, Endocarditis.

7471-68
TONSILLAR CARCINOMA IN RURAL DOGS.
W L Ragland J R Gorham
Nature 214 (5091), 925-926
27 May 1967 472 N21
Carcinoma, Dogs, Tonsils.

7472-68
ROUS SARCOMA VIRUS INFECTION OF CHICKEN BUFFY COAT MACROPHAGE.
S R S Rangan F B Bang
Soc Exp Biol Med Proc 125 (2), 593-598 REF
Jun 1967 442.9 SO1
Chickens, Macrophages, Rous sarcoma virus.

7473-68
PERITONEAL DIALYSIS AS AN ADJUNCT TO LEPTOSPIROSIS THERAPY IN A DOG.
G L Raulston
Amer Vet Med Ass J 142(6) 613-617, 20 REFS., 5 TABS.
15 Mar 1963 41.8 AM3
Dialysis, Dogs, Leptospirosis, Peritoneum, Uremia.

7474-68
PROBLEMS OF ANAPLASMOSIS CONTROL IN TICK-INFESTED AREAS OF THE NORTHWEST.
G B Rea
Amer Vet Med Ass J 147(12) 1567-1569
15 Dec 1965 41.8 AM3
Anaplasmosis, Insect vectors, Ixodides, Northwest.

7475-68
THE SEASONAL INCIDENCE OF CANINE COCCIDIOMYCOSIS.
R E Reed J L Converse
Amer Vet Med Ass J 147(12) 1670
15 Dec 1965 41.8 AM3
Coccidioides, Dogs, Weather.

7476-68
FACTORS OTHER THAN GROUNDNUT IN THE PRODUCTION OF AFLATOXIN.
J W Richmond N H Sutcliffe N W R Daniels P W R Eggitt
Vet Rec 74(35) 962, 5 REFS.
01 Sep 1962 41.8 V641
Aflatoxin, Peanuts.

7477-68
FACTORS OTHER THAN GROUNDNUT RELATING TO TURKEY X DISEASE .
J W Richmond N H Sutcliffe N W R Daniel P W R Eggitt
Vet Rec 74(18) 544-545
05 May 1962 41.8 V641
Ducklings, Hyperkeratosis, Peanuts, Poisonous fungi.

7478-68
EXPERIMENTAL INFECTION OF CHICKENS WITH MYCOPLASMA GALLISEPTICUM AND SUBSEQUENT RE-ISOLATION OF THE ORGANISM FROM THE BODY TISSUES.
D H Roberts
Vet Rec 76(29) 798-801, 14 REFS., 1 TAB.
18 Jul 1964 41.8 V641
Chickens, Mycoplasma gallisepticum antigens.

7479-68
MADUROMYCOSIS OF THE BOVINE NASAL MUCOSA.
E D Roberts H A McDaniel E A Carbrey
Amer Vet Med Ass J 142(1) 42-48, 12 FIGS.
01 Jan 1963 41.8 AM3
Cattle, Eosinophilic granuloma, Helminthosporium, Histology, Maduromycosis, Nasal mucosa.

7480-68
STREPTOTHRICOSIS IN CATTLE.
H E Roberts T F Vallely
Vet Rec 74(25) 693-696, 8 REFS., 1 TAB.
23 Jun 1962 41.8 V641
Cattle, Streptotrichosis.

7481-68
MASTITIS CONTROL PROVES ITS WORTH IN NEW YORK.
S J Roberts C E DeCamp
Amer Vet Med Ass J 147(4) 367-369
15 Aug 1965 41.8 AM3
Mastitis, Streptococcus.

7482-68
PROPHYLAXIS AGAINST TRYPANOSOMIASIS IN ZEBU CATTLE. IV. A FIELD TRIAL OF METAMIDIUM AND ISOMETAMIDIUM.
J Robson
Vet Rec 74(34) 913-917, 8 REFS., 2 TABS.
25 Aug 1962 41.8 V641
Chlorides, Trypanosomiasis, Zebu cattle.

7483-68
TRANSMISSION OF EQUINE PIROPLASMOSIS BY DERMACENTOR NITENS NEUMANN.
T O Roby D W Anthony
Amer Vet Med Ass J 142(7) 768-769
01 Apr 1963 41.8 AM3
Animal disease transmission, Dermacentor, Horses, Piroplasmosis.

7484-68
BRUCELLA AGGLUTININS IN EAST AFRICAN GAME ANIMALS.
D H L Rollinson
Vet Rec 74(33) 904, 13 REFS.

18 Aug 1962 41.8 V641
Agglutination test, Brucella abortus antigens, Game animals.

7485-68
COLITIS X OF HORSES.
J R Rooney J T Bryans E R Doll
Amer Vet Med Ass J 142(5) 510-511
01 Mar 1963 41.8 AM3
Colitis X , Diarrhea, Endotoxemia, Escherichia, Horses.

7486-68
SALMONELLOSIS IN TURTLES IN RHODE ISLAND.
B J Rosenstein
Amer Vet Med Ass J 147(10) 1089
15 Nov 1965 41.8 AM3
Pseudemys scripta, Rhode island, Salmonella, Salmonellosis, Turtles.

7487-68
CHRONIC COPPER POISONING IN LAMBS.
D B Ross
Vet Rec 76(32) 875-876, 4 REFS., 3 TABS.
08 Aug 1964 41.8 V641
Copper, Lambs, Poisoning.

7488-68
COMPARISON OF PATHOGENICITY OF VARIOUS ISOLATES OF BORDETELLA BRONCHISEPTICA IN YOUNG PIGS.
R F Ross W P Switzer J R Duncan
Amer Vet Med Ass J 147(12) 1662-1663
15 Dec 1965 41.8 AM3
Bordetella, Pathogenicity, Swine.

7489-68
MORTALITY AND MORBIDITY IN CALVES WITH SALMONELLOSIS.
H Rothenbacher
Amer Vet Med Ass J 147(11) 1211
01 Dec 1965 41.8 AM3
Calves, Mortality, Salmonella, Salmonellosis.

7490-68
SUSPECTED SKELETAL SCURVY IN A DOG.
S E Sadek
Vet Rec 74(33) 905
18 Aug 1962 41.8 V641
Ascorbic acid, Bone diseases, Dogs, Scurvy.

7491-68
PROBLEMS OF ESTABLISHING ANAPLASMOSIS-FREE HERDS IN MONTANA.
J W Safford
Amer Vet Med Ass J 147(12) 1570-1572
15 Dec 1967 41.8 AM3
Anaplasmosis, Cattle, Insect vectors.

7492-68
CLINICAL APPRAISAL OF AN AVIRULENT ORAL ERYSIPELAS VACCINE.
G R Sampson R A Sauter L M Wilkins R J Driesens
Amer Vet Med Ass J 147(5) 484-489, 5 TABS
01 Sep 1965 41.8 AM3
Erysipelas bacterins, Immunization, Swine.

7493-68
VIRAL CAUSES OF BOVINE ABORTION IN OHIO.
S A Sattar E B Bohl M Senturk
Amer Vet Med Ass J 147(11)1207-1210
01 Dec 1965 41.8 AM3
Abortion, Cattle, Ohio, Rhinotracheitis, Virus diseases (animals).

7494-68
LOW LEUKOCYTE LEVELS PROTECT COWS FROM COLIFORM MASTITIS.
O W Schalm
Amer Vet Med Ass J 147(1) 37
01 Jul 1965 41.8 AM3
Cattle, Leukocytes, Mastitis.

7495-68
SUBENDOCARDIAL HAEMORRHAGE IN RINDERPEST-INFECTED CATTLE.
G R Scott
Vet Rec 74(19) 567-568, 5 REFS.,
12 May 1962 41.8 V641
Cattle, Hemorrhage, Rinderpest.

7496-68
BREAKDOWNS IN SWINE-FEVER VACCINATED HERDS.
W A Scott
Vet Rec 74(43) 1168
27 Oct 1962 41.8 V641
Hog cholera, Immunization, Swine.

7497-68
PESTICIDES AND ANIMAL POISONING.
W N Scott
Vet Rec 76(36) 964-973, 31 REFS., 2 TABS.
05 Sep 1964 41.8 V641
Animals, Pesticides, Poisoning.

7498-68
OBSERVATIONS ON PATHOGENICITY AND IMMUNOGENICITY OF A CELL-CULTURE-MODIFIED FOOT-AND-MOUTH DISEASE VIRUS.
B R Seibold E Dougherty J S Martinsen
Amer Vet Med Ass J 147(12) 1608-1618, 4 TABS.
15 Dec 1965 41.8 AM3
Culture media, Foot-and-mouth disease virus, Immunization, Pathogenicity, Swine, Virus diseases (animals).

7499-68
AN OUTBREAK OF MALIGNANT CATARRH AMONG THE PERE DAVID DEER.
M Senior C R E Balnan E B Tong
Vet Rec 74(35) 932-936
01 Sep 1962 41.8 V641
Deer, Malignant catarrh, Sulfamethazine.

7500-68
SYNTHETIC OESTROGEN POISONING.
G W Serth
Vet Rec 74(23) 667
09 Jun 1962 41.8 V641
Dogs, Estrogens, Poisoning.

7501-68
PUBLIC HEALTH ASPECTS OF CESIUM-137 IN RUMINANTS.
R O Shannon R O McClellan C R Watson L K Bustad
Amer Vet Med Ass J 147(12) 1488-1491, 24 REFS, 3 TABS.
15 Dec 1965 41.8 AM3
Cesium isotopes, Cesium-137, Ruminants.

7502-68
THE CLINICAL APPROACH TO ABDOMINAL DISORDERS OF THE DOG.
N C C Sharp
Vet Rec 76(3) 94-97, 4 REFS., 2 TABS.
18 Jan 1964 41.8 V641
Dogs, Lymphosarcoma, Pancreas, Weil s disease.

7503-68
RESISTANCE OF BOOPHILUS MICROPLUS TO ORGANO-PHOSPHORUS INSECTICIDES.
R D Shaw H A Malcolm
Vet Rec 76(7) 210-211
15 Feb 1964 41.8 V641
Boophilus annulatus, Carbaryl, Carbophenothion, Diazinon, Insecticide resistant insects, Rotenone.

7504-68
IMMUNOFLUORESCENT STUDIES OF VIRUS-INDUCED RABBIT PAPILLOMA (SHOPE) IN VITRO.
O Shiratori T Osato Y Ito
Soc Exp Biol Med Proc 125 (2), 435-440
Jun 1967 442.9 SO1
Fluorescent antibody technic, Rabbit papilloma virus.

7505-68
THE OCCURRENCE OF GASEOUS LYMPHADENITIS AND MOREL S DISEASE IN A SHEEP FLOCK IN KENYA.
J F Shirlaw W A Ashford
Vet Rec 74(38) 1025-1026, 5 REFS.
22 Sep 1962 41.8 V641
Caseous lymphadenitis, Sheep.

7506-68
ANTHRAX IN CHESTER ZOO.
R V Short
Vet Rec 76(37) 1040
12 Sep 1964 41.8 V641
Anthrax, Elephants.

7507-68
THE THERAPEUTIC USE OF CYSTEAMINE IN BOVINE KETOSIS.
M G Simesen
Vet Rec 74(32) 872-874, 14 REFS.
11 Aug 1962 41.8 V641
Cattle, Cysteamine, Ketosis.

7508-68
PATHOLOGIC CHANGES ASSOCIATED WITH FEEDING VARIOUS LEVELS OF CROTALARIA SPECTABILIS SEED TO POULTRY.
C F Simpson P W Waldroup R B Harms
Amer Vet Med Ass J 142(3) 264-271, 12 FIGS.
01 Feb 1963 41.8 AM3

30 7509-68

Crotalaria, Necrosis, Poultry, Seeds.

7509-68
POTENTIATION OF DIETHYLSTILBESTROL INDUCED AORTIC RUPTURES OF TURKEYS WITH THIOURACIL.
C F Simpson R H Harms
Soc Exp Biol Med Proc 125 (1), 245-248 REF
May 1967 442.9 SO1
Aorta, Diethylstilbestrol, Thiouracil, Turkeys.

7510-68
A PRELIMINARY REPORT ON THE OCCURENCE OF INFECTIOUS LARYNGOTRACHEITIS OF POULTRY IN INDIA.
S B Singh G R Singh C M Singh
Poultry Sci 43(2) 492-494
Mar 1964 47.8 AM33P
Chickens, Epidemiology, India, Infectious laryngotracheitis, Infectious laryngotracheitis virus, Serodiagnosis.

7511-68
THE TREATMENT OF INFECTIOUS SINUSITIS OF TURKEYS WITH FURAZOLIDONE.
T E Singleton
Vet Rec 74(16) 485-486, 8 REFS.
21 Apr 1962 41.8 V641
Furazolidone, Sinusitis, Turkeys.

7512-68
TOWARDS CONTROL OF MASTITIS.
G F Smith
Vet Rec 76(6) 187
08 Feb 1964 41.8 V641
Mastitis.

7513-68
DIAGNOSIS AND CAUSES OF NITRATE POISONING.
G S Smith
Amer Vet Med Ass J 147(4) 365-366
15 Aug 1965 41.8 AM3
Animal nutrition, Feed toxicity, Nitrates.

7514-68
MASTITIS, METRITIS AND DIARRHEA IN SWINE.
H C Smith
Amer Vet Med Ass J 147(6) 626-631
15 Sep 1965 41.8 AM3
Diarrhea, Mastitis, Metritis, Swine.

7515-68
INCOMPLETE DILATION OF THE OVINE CERVIX.
J S Smith
Vet Rec 74(18) 545
05 May 1962 41.8 V641
Oxytocin, Sheep, Uterus.

7516-68
MASTITIS CONTROL PROGRAMS EFFECTIVE IN CONNECTICUT.
J V Smith
Amer Vet Med Ass J 147(4) 366-367
15 Aug 1965 41.8 AM3
Mastitis, Streptococcus.

7517-68
A POSSIBLE CASE OF PURPURA HAEMORRHAGICA IN A DOG.
S St. John
Vet Rec 74(29) 822
21 Jul 1962 41.8 V641
Dogs, Purpura hemorrhagica.

7518-68
CONCURRENT SALMONELLA TYPHIMURIUM AND EIMERIA NECATRIX INFECTIONS IN CHICKS.
J F Stephens B D Barnett D F Holtman
Poultry Sci 43(2) 352-356
Mar 1964 47.8 AM33P
Chicks, Coccidiosis, Eimeria, Salmonella.

7519-68
EXPERIMENTAL TRYPANOSOMA CONGOLENSE INFECTION IN A HORSE.
L E Stephen
Vet Rec 74(31) 853-855, 4 REFS., 1 TAB.
04 Aug 1962 41.8 V641
Horses, Trypanosomiasis.

7520-68
RECOVERY FROM SUBACUTE GRASS SICKNESS.
E C Straiton
Vet Rec 76(5) 148-149, 2 REFS.
01 Feb 1964 41.8 V641
Grass sickness, Horses, Oxytetracycline.

7521-68
DERMOID SINUS IN THE RHODESIAN RIDGEBACK.
J Stratton
Vet Rec 76(31) 846, 2 REFS.
01 Aug 1964 41.8 V641
Dermoid cysts.

7522-68
THE ZOONOSIS PROBLEM IN CHILE.
D Studic M I A Martinez
Vet Rec 74(18) 531-537
05 May 1962 41.8 V641
Zoonoses.

7523-68
ARSENICAL POISONING OF RACEHORSES.
G N Sutherland E V Fawell J K Brown
Vet Rec 76(10) 275-278, 1 TAB.
07 Mar 1964 41.8 V641
Arsenic, Poisoning, Race horses.

7524-68
ADVERTISEMENTS, ANTIBIOTICS AND MASTITIS.
A M Taylor
Vet Rec 76(13) 385
28 Mar 1964 41.8 V641
Advertising, Antibiotics, Mastitis.

7525-68
TREATMENT OF STRONGYLES IN HORSES.
J H Theis
Amer Vet Med Ass J 147(11) 1210
01 Dec 1967 41.8 AM3
Horses, Strongylus.

7526-68
THE PATHOGENESIS OF GASTRO-ENTERITIS ASSOCIATED WITH ESCHERICHIA COLI.
J R Thomlinson
Vet Rec 76(8) 237-238, 5 REFS.
22 Feb 1964 41.8 V641
Bacteria, Edema, Gastroenteritis, Swine.

7527-68
SALMONELLOSIS, A PET-IMPLICATED ZOONOSIS.
L R Thomsen
Amer Vet Med Ass J 147(11) 1234
01 Dec 1965 41.8 AM3
Animal vectors, Pets, Salmonellosis.

7528-68
A STUDY OF THE EFFECTS OF VARIOUS HORMONE TREATMENTS ON THE REPRODUCTIVE ACTIVITY OF PREPUBERAL AND POST-PUBERAL BEEF HEIFERS AND LACTATING BEEF COWS.
J E Tilton
Diss Abstr Sect B 27 (12,PT.1), 4196B
Jun 1966 Z5055.U49D53
Beef cattle, Cattle, Gonadotropins, Hormones, Methyl-u17acetoxyprogesterone, 6-.

7529-68
THE INCIDENCE OF LEAD POISONING IN CALVES IN NORTHERN IRELAND.
J R Todd
Vet Rec 76(31) 845, 6 REFS., 1 TAB.
01 Aug 1964 41.8 V641
Calves, Lead, Northern Ireland, Poisoning.

7530-68
AMINO-ACID EXCRETION IN CANINE CYSTINE-STONE DISEASE.
R J Treacher
Vet Rec 74(17) 503-504, 13 REFS.
28 Apr 1962 41.8 V641
Cystine, Dogs, Urinary calculi.

7531-68
A NEW PENICILLIN.
T Turner
Vet Rec 74(44) 1190, 3 REFS.
03 Nov 1962 41.8 V641
Penicillin.

7532-68
METALDEHYDE POISONING IN THE DOG.
T Turner
Vet Rec 74(20) 592-593, 3 REFS.
19 May 1962 41.8 V641
Dogs, Metaldehyde, Pentobarbital, Poisoning.

7533-68
A CASE OF ESCHERICBIA MONOCYTOGENES (LISTERA MONOCYTOGENES) IN A CAT.
T Turner
Vet Rec 74(27) 778, 2 REFS.
07 Jul 1962 41.8 V641
Cats, Listeriosis.

7534-68
EVAIUATION OF PROBLEMS RELATED TO INTRODUCTION OF SECONDARY SPECIFIC-PATBOGEN-FREE (SPF) BOARS INTO SPF AND NON-SPF HERDS.
N R Underdahl L C Welch G A Young
Amer Vet Med Ass J 142(6) 634-638, 6 TABS.
15 Mar 1963 41.8 AM3
Boars, Germ-free life.

7535-68
TRANSMISSION AND CBARACTERIZATION OF EDEMA DISEASE OF SWINE.
N R Underdahl E L Stair G A Young
Amer Vet Med Ass J 142(1) 27-30
01 Jan 1963 41.8 AM3
Edema disease, Swine, Virus diseases (animals).

7536-68
THE RELATIVE IMMUNISING VALUE OF MUCOID L AND S19 STRAINS OF BRUCELLA ABORTUS WITB COMPARATIVE OBSERVATIONS ON THE AGGLUTINATION AND COMPLEMENT FIXATION TESTS.
A Van Der Schaaf F B J Jaartsveld
Vet Rec 74(40) 1070-1076, 14 REFS., 5 TABS.
06 Oct 1962 41.8 V641
Brucella abortus vaccines.

7537-68
PROPBYLACTIC ACTIVITY OF BERENIL AGAINST TRYPANOSOMES IN TREATED CATTLE.
K Van Hoeve M P Cunningham
Vet Rec 76(9) 260, 3 REFS.
29 Feb 1964 41.8 V641
Berenil, Cattle, Trypanosomiasis.

7538-68
TBE RADIOGRAPHIC FEATURES OF CALCINOSIS CIRCUMSCRIPTA (KALKGICHT, CALCIUM GOUT) IN TBE DOG.
L C Vaughn
Vet Rec 74(37) 988-989, 4 REFS.
15 Sep 1962 41.8 V641
Calcinosis, Dogs, Radiography.

7539-68
NUTRITIONAL AND BIOCBEMICAL ASPECTS OF ARABINOSE AND XYLOSE FOR CHICKS.
P V Wagh
Diss Abstr Sect B 27 (12,PT.1), 4288B
Jun 1967 Z5055.U49D53
Animal nutrition, Arabinose, L-, Biochemistry, Chicks, Wood sugar.

7540-68
INFLUENCE OF PORCINE TRANSMISSIBLE GASTROENTERITIS ON CBLORTETRACYCLINE BLOOD VALUES.
L J Wallace C K Whitehair
Amer Vet Med Ass J 147(9) 952-957, 7 FIGS.
01 Nov 1965 41.8 AM3
Chlortetracycline, Swine.

7541-68
STUDIES ON TBE PATBOGENESIS OF VIBRIO COLI INFECTION IN SWINE.
S D Warner
Diss Abstr Sect B 27 (12,PT.1), 4459B
Jun 1967 Z5055.U49D53
Swine dysentery, Vibrio coli.

7542-68
CONGENITAL GOITRE IN DORSET-BORN LAMBS.
W A Watson G D Broadhead R Kilpatrick
Vet Rec 74(17) 506-509, 20 REFS., 4 TABS.
28 Apr 1962 41.8 V641
Dorset Born sheep, Goiter.

7543-68
STAPBYLOCOCCAL INFECTION IN LAMES A STUDY OF LIVE AND DEAD LAMBS FROM TICK-INFESTED FARMS IN NORTH-WEST YORKSHIRE AND NORTB-EAST LANCASHIRE.
W A Watson
Vet Rec 76(29) 793-797, 17 REFS., 8 TABS.
18 Jul 1964 41.8 V641
Lambs, Penicillin, Pyemia.

7544-68
TOXOPLASMOSIS IN MINK.
W A Watson J K A Beverley
Vet Rec 74(38) 1027, 9 REFS.
22 Aug 1962 41.8 V641
Minks, Toxoplasmosis.

7545-68
BISTOLOGIC AND ELECTRON MICROSCOPIC STUDIES OF AGRANULOCYTES AND HEMAL AND HEMOLYMPB NODES IN CATTLE.
A F Weber D Joel R S Hammer
Amer Vet Med Ass J 147(12) 1656
15 Dec 1965 41.8 AM3
Agranulocytosis, Cattle, Electron microscopy, Hemolymph nodes, Histology.

7546-68
NEW INVESTIGATIONS ON COLD-BLOODED ANIMALS AS SALMONELLA SOURCES.
W Wesselinoff
Amer Vet Med Ass J 147(6) 676-677
15 Sep 1965 41.8 AM3
Animal vectors, Salmonella, Salmonellosis, Turtles.

7547-68
SULPHUR POISONING IN EWES.
J B White
Vet Rec 76(10) 278-279, 2 REFS., 1 TAB.
07 Mar 1964 41.8 V641
Poisoning, Sheep, Sulfur.

7548-68
INTESTINAL BERNIATION IN THE EWE.
J B White A J Stevens
Vet Rec 74(30) 842-843, 1 TAB.
28 Jul 1962 41.8 V641
Intestinal hernia, Sheep.

7549-68
METALDEHYDE POISONING.
R B Whiteford
Vet Rec 74(15) 467
14 Apr 1962 41.8 V641
Dogs, Metaldehyde, Poisoning.

7550-68
A NON-TUBERCULOUS GRANULOMA OF THE CAT ASSOCIATED WITH AN ACID-FAST BACILLUS.
G T Wilkinson
Vet Rec 76(30) 833-834, 1 REF.
25 Jul 1964 41.8 V641
Acid fast bacteria, Cats, Granuloma.

7551-68
A NON-TUBERCULOUS GRANULOMA OF THE CAT ASSOCIATED WITH AN ACID-FAST BACILLUS.
G T Wilkinson
Vet Rec 76(28) 777-778, 1 REF.
11 Jul 1964 41.8 V641
Acid fast bacteria, Cats, Granuloma.

7552-68
A SUCCESSFUL ANAPLASMOSIS ERADICATION PROGRAM.
E B Willers
Amer Vet Med Ass J 147(12) 1573-1575
15 Dec 1965 41.8 AM3
Anaplasmosis, Cattle, Germ-free life, Insect vectors.

7553-68
SALMONELLOSIS IN TURTLES IN MINNESOTA.
L P Williams Jr B L Helsdon
Amer Vet Med Ass J 147(10) 1048
15 Nov 1965 41.8 AM3
Minnesota, Salmonellosis, Turtles.

7554-68
LAPARO-CYSTOTOMY IN A GELDING.
K R Williams
Vet Rec 76(3) 83-84, 2 REFS.
18 Jan 1964 41.8 V641
Calculi, Horses.

7555-68
FIBROUS DYSPLASIA IN A MONKEY AND A KUDU.
W M Williamson L S Lombard B S Firfer
Amer Vet Med Ass J 147(10) 1049-1052, 8 FIGS.
15 Nov 1965 41.8 AM3
Fibrous dyplasia, Monkeys, Neoplasms.

30 7556-68

7556-68
STUDIES OF A NEW PENICILLIN, BRL 1921, FOR THE TREATMENT AND CONTROL OF STAPHYLOCOCCAL MASTITIS IN COWS.
C D Wilson W A Coats G C Brander
Vet Rec 77(42) 1120-1126, 17 REFS., 5 TABS.
20 Oct 1962 41.8 V641
Dairy cattle, Mastitis, Penicillin.

7557-68
TICK-BORNE FEVER AS A CAUSE OF ABORTION AND STILLBIRTHS IN CATTLE.
J C Wilson E Foggie
Vet Rec 76(39) 1081-1084, 10 REFS., 1 TAB.
26 Sep 1964 41.8 V641
Abortion, Cattle, Piroplasmosis.

7558-68
A FIELD TRIAL OF A HEAVY MAGNESIUM PELLET.
R K Wilson M F Maguire D B R Poole
Vet Rec 74(39) 1041-1043, 14 REFS., 3 TABS.
29 Sep 1962 41.8 V641
Hypomagnesemia, Magnesium.

7559-68
HAEMOPHILUS GALLINARUM - INTRAFLOCK SPREAD.
R Yamamoto G T Clark
Amer Vet Med Ass J 147(12) 1672
15 Dec 1965 41.8 AM3
Animal vectors, Haemophilus, Poultry.

7560-68
HISTOPATHOLOGY OF GUINEA PIGS WITH CHOLESTEROL-INDUCED ANEMIA.
W Yamanaka R Ostwald S W French
Soc Exp Biol Med Proc 125 (1), 303-306
May 1967 442.9 SO1
Cholesterol, Guinea pigs, Hemolytic anemia.

Arthropods

7561-68
A SYSTEMIC INSECTICIDE AND BAIT FOR FLEA AND RAT CONTROL.
E Bennington
J Econ Entomol 53(1) 169-170, BIBL.
Feb 1960 421 J822
Baits, Insecticides, Rats, Ronnel, Siphonaptera.

7562-68
LABORATORY AND FIELD TESTS AGAINST MITES AND LICE ATTACKING POULTRY.
W S Bigley A R Roth G W Eddy
J Econ Entomol 53(1) 12-14, BIBL., TABS., PL.
Feb 1960 421 J822
Anoplura, Barthrin, Diethyltoluamide, Malathion, Menacanthus stramineus, Mites, Ornithonyssus sylviarum, Poultry, Ronnel.

7563-68
SELECTIVE TOXICITY AND ANIMAL SYSTEMIC EFFECTIVENESS OF SEVERAL ORGANOPHOSPHATES.
U E Brady Jr. H W Dorough B W Arthur
J Econ Entomol 53(1) 6-8, BIBL., TABS.
Feb 1960 421 J822
Bayer 23453, Bayer 24498, Bayer 25198, Dimethoate, Fenthion, Musca domestica, Naled, Rabbits, Rats, Shell SD 3562, Toxicology.

7564-68
FACE FLY CONTROL.
W N Bruce S Moore III g C Decker
J Econ Entomol 53(3) 450-451, TABS.
Jun 1960 421 J822
Di-n-butyl succinate, Diazinon, Dichlorvos, Dimethoate, Livestock, Musca, Tabatrey.

7565-68
EFFECT OF PARATHION ON PARASITES OF ORIENTAL FRUIT MOTH COCOONS AND TRICHOGRAMMA MINUTUM IN PEACH ORCHARDS.
M H Brunson
J Econ Entomol 53(2) 304-306, BIBL., TABS.
Apr 1960 421 J822
Parathion, Peaches, Plums.

7566-68
HOUSE FLY CONTROL IN PIG PARLORS.
E C Burns W A Nipper
J Econ Entomol 53(4) 539-540, BIBL. 539-540
Aug 1960 421 J822
Baby pigs, Diazinon, Fenthion, Musca domestica, Ronnel, Swine houses.

7567-68
DEVELOPMENT OF A SYNTBETIC MEDIUM FOR ASEPTIC REARING OF LARVAE OF STOMOXYS CALCITRANS (L.).
R E Gingrich
J Econ Entomol 53(3) 408-411, BIBL., TABS.
Jun 1960 421 J822
Human diseases, Larvae, Livestock, Stomoxys.

7568-68
USE OF AN ANIMAL MEMBRANE IN THE EVALUATION OF CHEMICAL REPELLENTS AGAINST THE STABLE FLY.
P Granett
J Econ Entomol 53(3) 432-435, BIBL.
Jun 1960 421 J822
Aedes aegypti, Animal membranes, Butoxy polypropylene glycol, Delphene, Draft cattle, Equipment, Indalone, Insect repellents, Stomoxys, Tabatrex.

7569-68
FIELD STUDIES OF HOUSE FLY RESISTANCE TO ORGANOPHOSPHORUS INSECTICIDES.
E J Hansens
J Econ Entomol 53(2) 313-317, BIBL.
Apr 1960 421 J822
Diazinon, DDT , Insecticide resistant insects, Lindane, Musca domestica, Ronnel.

7570-68
A STUDY OF THE HISTOLOGICAL EFFECTS OF HYPODERMA LINEATUM (DE VILL.) ON GULLET TISSUE TAKEN FROM SYSTEMICALLY TREATED AND UNTREATED CATTLE.
J J Harris W W Neel L L Ellis
J Econ Entomol 53(2) 280-282, BIBL.
Apr 1960 421 J822
Cattle, Coumaphos.

7571-68
INSECTICIDAL BAITS FOR CONTROL OF THE IMPORTED FIRE ANT, SOLENOPSIS SAEVISSIMA RICBTERI.
S B Hays F S Arant
J Econ Entomol 53(2) 188-191, BIBL., TABS.
Apr 1960 421 J822
Baits, Heptachlor, Kepone, Peanut butter, Solenopsis.

7572-68
RESIDUAL EFFECTIVENESS OF CERTAIN INSECTICIDES IN HORN FLY CONTROL.
W T Johnson G S Langford
J Econ Entomol 53(3) 477-478
Jun 1960 421 J822
Carbaryl, Cattle, Malathion, Methoxychlor, Ronnel.

7573-68
CONTROL OF THE NORTHERN FOWL MITE, ORNITBONISSUS SYLVIARUM (C. + F.), WITH RONNEL, BAYER L13/59, AND BAYER 21/199.
F W Knapp G F Krause
J Econ Entomol 53(1) 4-5, BIBL.
Feb 1960 421 J822
Birds, Chickens, Cocks, Coumaphos, Ornithonyssus sylviarum, Ronnel, Trichlorfon.

7574-68
SYSTEMIC INSECTICIDES FOR CATTLE GRUB CONTROL.
F W Knapp C J Terhaar C C Roan
J Econ Entomol 53(4) 541-546, BIBL., TABS.
Aug 1960 421 J822
Cattle, Coumaphos, Dimethoate, DOWCO 109, Hypoderma, Phosphoramidothioic acid.

7575-68
HOUSE FLY PUPATION UNDER BASEBOARDS.
J L Minkin H G Scott
J Econ Entomol 53(3) 479-480, BIBL., PL.
Jun 1960 421 J822
Baseboards, DDT , Guinea pigs, Malathion, Musca domestica, Parathion, Pupae.

7576-68
CHLORINATED HYDROCARBON INSECTICIDES AS SOIL TREATMENTS AGAINST THE EYE GNAT HIPPELATES COLLUSOR (TOWNSEND) IN THE LABORATORY.
M S Mulla

J Econ Entomol 53(3) 367-372, BIBL., TABS.
Jun 1960 421 J822
Aldrin, Chlorine, Dieldrin, DDT , Heptachlor, Lindane, Toxaphene.

7577-68
ORGANOPHOSPHATE SYSTEMICS AS SPRAYS AND FEED ADDITIVES FOR CATTLE GRUB CONTROL.
E S Raun J B Herrick
J Econ Entomol 53(1) 125-126, BIBL.
Feb 1960 421 J822
Cattle, Coumaphos, Food additives, Ronnel, Spraying.

7578-68
TOXAPHENE RESIDUES IN HOGS.
R H Roberts R D Radeleff
J Econ Entomol 53(2) 322, BIBL.
Apr 1960 421 J822
Residues, Swine, Toxaphene.

7579-68
METHODS FOR TBE EVALUATION OF STABLE FLY TOXICANTS AND REPELLENTS.
R H Roberts C M Jones E E Gless
J Econ Entomol 53(2) 301-303, BIBL., PL.
Apr 1960 421 J822
Allethrin, Butyl 2-methyl-3-(3,4-methylenedioxphenyl), Cattle, Insect repellents, Musca domestica, Toxicology.

7580-68
MALATHION DUST FOR CHICKEN MITE CONTROL.
J L Rodriguez L A Riehl
J Econ Entomol 53(2) 328-329, BIBL.
Apr 1960 421 J822
Chickens, Dermanyssus, Malathion.

7581-68
THE MALATHION DUST-BATH FOR CONTROL OF FIVE SPECIES OF LICE ON CHICKENS.
J L Rodriguez L A Riehl
J Econ Entomol 53(2) 328, BIBL.
Apr 1960 421 J822
Anoplura, Chickens, Malathion.

7582-68
THE IN VIVO ACTIVITY OF SEVERAL SYSTEMIC INSECTICIDES AGAINST CATTLE GRUBS IN SOUTH DAKOTA.
W M Rogoff P H Kohler R N Duxbury
J Econ Entomol 53(2) 183-187, BIBL., TABS.
Apr 1960 421 J822
Aminoacridine HCL, 9-, Cattle, Coumaphos, Dimethoate, Dowco 109, Midothioate), Monacrin, O-(4-tert-butyl-2-chlorophenyl) O-methyl methyl-phosphora-, Ronnel, South Dakota.

7583-68
CONTROL OF MYOCOPTES MUSCULINUS ON GUINEA PIGS.
H G Sengbusch
J Econ Entomol 53(1) 168, BIBL.
Feb 1960 421 J822
Aramite, DMC , Guinea pigs, Mange, Myocoptes, Radiation.

7584-68
TOXICITY TO HOUSE FLY LARVAE OF DROPPINGS FROM CHICKENS FED INSECTICIDE-TREATED RATIONS.
M Sherman E Ross
J Econ Entomol 53(3) 429-432, BIBL.
Jun 1960 421 J822
Chickens, Coumaphos, Diazinon, Feces, Musca domestica, Toxicology, Trichlorfon.

7585-68
ECONOMIC IMPORTANCE OF THE CHICKEN BODY LOUSE.
H J Stockdale E S Raun
J Econ Entomol 53(3) 421-423, BIBL.
Jun 1960 421 J822
Animal nutrition, Chickens, Egg production, Menacanthus.

7586-68
FEED LOT TESTS WITH RONNEL FOR CONTROL OF CATTLE GRUBS.
H E Thurber G D Peterson Jr
J Econ Entomol 53(3) 339-341, BIBL. 340-341, PL.
Jun 1960 421 J822
Cattle, Hypoderma, Ronnel.

Parasites

7587-68
LESIONS ASSOCIATED WITH LIVER FLUKE INFECTION IN A CAT.
Amer Vet Med Ass J 142(6) 661
15 Mar 1963 41.8 AM3
Cats, Clonorchis, Platynosomum.

7588-68
THIABENDAZOLE AS AN ANTHELMINTIC IN CATTLE AND SHEEP.
Amer Vet Med Ass J 142(6) 655
15 Mar 1963 41.8 AM3
Anthelmintics, Cattle, Cooperia, Nematodirus, Ostertagia, Sheep, Thiabendazole, Trichostrongylus.

7589-68
SWINE ASCARIDS INFECT CATTLE.
Amer Vet Med Ass J 142(8) 887
15 Apr 1963 41.8 AM3
Animal disease transmission, Ascaris, Cattle, Swine.

7590-68
SWINE KIDNEY WORM PERSISTENT AND RESISTANT.
Amer Vet Med Ass J 142(6) 638
15 Mar 1963 41.8 AM3
Stephanurus dentatus, Swine.

7591-68
EFFECT OF DIETHYLCARBAMAZINE ON PARASITIC BRONCHITIS IN CALVES.
Amer Vet Med Ass J 142(6) 658
15 Mar 1963 41.8 AM3
Calves, Dictyocaulus, Diethylcarbamazine, Parasitic bronchitis.

7592-68
IMMUNIZATION EXPERIMENTS WITH LUNGWORM LARVAE.
Amer Vet Med Ass J 142(7) 782-783
01 Apr 1963 41.8 AM3
Calves, Dictyocaulus, Immunization, Verminous bronchitis.

7593-68
THE ZOONOSIS OF ANIMAL PARASITES IN IRAQ. IV. SOME UNUSUAL LESIONS ASSOCIATED WITH OPISTHORCHIS TENUICOLLIS INFECTION.
M A Al-Dabagh B B Babero M El-Hashimi
Vet Rec 76(4) 116-119, 8 REFS.
25 Jan 1964 41.8 V641
Cats, Dogs, Helminthiasis.

7594-68
CONTROL OF DERMATOBIA HOMINIS IN CENTRAL AMERICA.
E H Anderson
Vet Rec 74(27) 784-787, 9 REFS.
07 Jul 1962 41.8 V641
Cattle, Insect biology, Oestridae.

7595-68
THE ANTHELMINTIC ACTIVITY OF A PHENOTHIAZINE-PHENZIDOLE MIXTURE COMPARED WITH THAT OF THIABENDAZOLE IN LAMBS IN KENYA.
S F Barnett C Rodrigues
Vet Rec 76(3) 81-83, 2 REFS., 1 TAB.
18 Jan 1964 41.8 V641
Anthelmintics, Helminthiasis, Lambs.

7596-68
FURTHER STUDIES ON TOXOPLASMOSIS AND OVINE ABORTION IN YORKSHIRE.
J K A Beverley W A Watson
Vet Rec 74(19) 548-552, 3 REFS., 8 TABS.
12 May 1962 41.8 V641
Abortion, Sheep, Toxoplasmosis.

7597-68
OVINE ABORTION AND TOXOPLASMOSIS IN THE EAST MIDLANDS.
J K A Beverley R R Mackay
Vet Rec 74(17) 499-501, 3 REFS., 1 TAB.
28 Apr 1962 41.8 V641
Abortion, Sheep, Toxoplasmosis.

30 7598-68

7598-68
FURTHER ATTEMPTS TO INFECT ANIMALS WITH THEILERIA PARVA.
D W Brocklesby B O Vidler
Vet Rec 74(46) 1277, 1 REF.
17 Nov 1962 41.8 V641
Ixodides, Laboratory animals, Theileriasis.

7599-68
THENIUM AND PIPERAZINE COMBINED, IN THE TREATMENT OF BOOK-WORM AND ROUNDWORM INFESTATION IN THE DOG.
C G D Brown
Vet Rec 74(28) 787-791, 16 REFS., 4 TABS.
14 Jul 1962 41.8 V641
Ancylostomatidae, Ascaris, Dogs, Piperazine.

7600-68
FURTHER EXPERIENCES WITH THE SYSTEMIC INSECTICIDES ETROLENE AND RUELENE IN 1960-61.
F C Brown
Vet Rec 74(20) 577-582, 18REFS., 10 TABS.
19 May 1962 41.8 V641
Cattle, Oestridae, Ronnel, Ruelene.

7601-68
FIELD TRIALS COMPARING THE ANTBELMINTIC EFFECT OF RUELENE (4-TERT-BUTYL-2-CHLOROPHENYLMETHYL METHYLPHOSPBORAMIDATE) WITH THAT OF PHENOTBIAZINE.
F G Brown
Vet Rec 74(18) 524-526, 5 TABS.
05 May 1962 41.8 V641
Lambs, Phenothiazine, Ruelene, Trichostrongylosis.

7602-68
AN EXPERIMENTAL INVESTIGATION INTO THE USE OF METHYRIDINE AS AN ANTHELMINTIC FOR CATS.
V K Brown
Vet Rec 74(30) 829-831, 7 REFS., 1 TAB.
28 Jul 1962 41.8 V641
Anthelmintics, Cats.

7603-68
PRE-PARTUM INFESTATION OF PUPPIES WITH ANCYLOSTOMA CANINUM.
P A Clapham
Vet Rec 74(26) 754-755, 1 TAB.
30 Jun 1962 41.8 V641
Ancylostomiasis, Dogs.

7604-68
A MIXTURE OF DIAVERIDINE AND SULPHAQUINOXALINE AS A COCCIDI-OSTAT FOR POULTRY.
M L Clarke
Vet Rec 76(30) 818-822, 7 REFS.
25 Jul 1964 41.8 V641
Chickens, Coccidiosis, Sulfaquinoxaline.

7605-68
HUSK IN CATTLE LABORATORY AND FIELD STUDIES ON CALVES VAC-CINATED WITH IRRADIATED WITH LUNGWORM LARVAE.
R L Cornwell
Vet Rec 74(22) 622-628, 20 REFS., 4 TABS.
02 Jun 1962 41.8 V641
Cattle, Vaccines, Verminous bronchitis.

7606-68
THIABENDAZOLE AS AN ANTHELMINTIC IN RESEARCH MONKEYS.
L E Cullum B R Hamilton
Amer Vet Med Ass J 147(10) 1052
15 Nov 1965 41.8 AM3
Anthelmintics, Monkeys, Oesophagostomum, Strongyloides, Thiabendazole, Trichurus.

7607-68
THE TREATMENT OF ANKYLOSTOMIASIS AND OF SPIROCERCOSIS IN DOGS BY THE NEW COMPOUND, 2,6-DIIODO-4-NITROPHENOL.
A Darne J L Webb
Vet Rec 76(6) 171-172, 4 REFS., 2 TABS.
08 Feb 1964 41.8 V641
Ancylostomiasis, Dogs, Nitrophenol.

7608-68
INJECTABLE CARBONTETRACHLORIDE IN THE TREATMENT OF FASCIOLA HEPATICA INFESTATION IN LAMBS.
N E Downey
Vet Rec 74(15) 453-455, 5 REFS., 1 TAB.
14 Apr 1962 41.8 V641
Carbon tetrachloride, Fascioliasis, Lambs.

7609-68
THE OCCURRENCE OF RAILLIETIA AURIS IN ZEBU CATTLE IN NI-GERIA.
W Ferguson M M J LaVoipierre
Vet Rec 74(24) 678, 4 REFS.
16 Jun 1962 41.8 V641
Otitis, Raillietiniasis, Zebu cattle.

7610-68
INFECTION OF GOATS WITH EIMERIA SPP. OF SHEEP ORIGIN.
W M Fitzsimmons
Vet Rec 76(39) 1099-1100, 4 REFS.
26 Sep 1964 41.8 V641
Coccidiosis, Goats, Sheep.

7611-68
INCIDENCE OF INFECTION WITB TRICHINELLA SPIRALIS IN DOGS.
E H Geller H Zaiman
Amer Vet Med Ass J 147(3) 253-254, 15 REFS.
01 Aug 1965 41.8 AM3
Culture media, Dogs, Mice, Trichinella.

7612-68
THE ACTION OF PURE MICROBIAL PHENOTHIAZINE ON THE INFESTA-TIONS OF NEMATODIRUS BATTUS IN LAMBS.
T E Gibson
Vet Rec 74(27) 766-767, 10 REFS., 2 TABS.
07 Jul 1962 41.8 V641
Lambs, Nematodiasis, Phenothiazine.

7613-68
EXPERIENCE WITH AN ANTHELMINTIC.
F B Halpin W W Kirkby
Vet Rec 74(16) 495
21 Apr 1962 41.8 V641
Anthelmintics, Cattle, Thelaziasis.

7614-68
TBE ANTHELMINTIC EFFICIENCY OF HALOXON AGAINST THE ADULT AND IMMATURE STAGES OF TBE GASTRO-INTESTINAL STRONGYLES OF NIGERIAN ZEBU CATTLE.
J A Hart
Vet Rec 76(12) 337-340, 12 REFS., 7 TABS.
21 Mar 1964 41.8 V641
Anthelmintics, Cooperia, Baemonchosis, Zebu cattle.

7615-68
DERMATOBIASIS IN CATTLE IN SOUTH AMERICA.
M E Hugh-Jones
Vet Rec 74(35) 961, 1 REF.
01 Sep 1962 41.8 V641
Cattle, Dermatobiasis.

7616-68
INFESTATION OF A PARAKEET WITB KNEMIDOKOPTES PILAE.
V Ivens D D Myers N D Levine E I Pilchard
Amer Vet Med Ass J 147(9) 968-969, 2 PLS.
01 Nov 1965 41.8 AM3
Knemidokoptes, Mites, Parakeets.

7617-68
BACILLARY HEMOGLOBINURIA (REDWATER DISEASE) IN FLORIDA.
G R Jones B C Swindle
Amer Vet Med Ass J 147(2) 146-147
15 Jul 1965 41.8 AM3
Cattle, Clostridium, Florida, Red water disease, Sheep, Trematoda.

7618-68
A SURVEY AND REVIEW OF PARASITIC DISEASES OF WILD AND GAME BIRDS IN GREAT BRITAIN.
I F Keymer J R Rose W N Beesley S F M Davies
Vet Rec 74(33) 887-894, 56 REFS., 7 TABS.
18 Aug 1962 41.8 V641
Game birds, Parasitism.

7619-68
DIMETRIDAZOLE PART II. THERAPEUTIC ACTIVITY AND TOXICITY IN TBE TREATMENT OF EXPERIMENTAL HISTOMONIASIS IN TURKEYS.
J M S Lucas
Vet Rec 74(27) 759-763, 3 REFS., 6 TABS.
07 Jul 1962 41.8 V641
Anthelmintics, Blackhead, Turkeys.

7620-68
BOVINE STREPTOTHRICOSIS PRODUCTION OF LESIONS BY TBE BITES OF THE TICK AMBLYOMMA VARIEGATUM.
I Macadam
Vet Rec 74(23) 643-646, 7 REFS.
09 Jun 1962 41.8 V641

Cattle, Ixodides, Streptotrichosis.

7621-68
TICK TRANSMISSION OF BOVINE PASTEURELLOSIS.
I Macadam
Vet Rec 74(24) 689-690, 4 REFS.
16 Jun 1962 41.8 V641
Cattle, Ixodides, Shipping fever.

7622-68
THE EFFECTS OF ECTOPARASITES AND HUMIDITY ON NATURAL LESIONS OF STREPTOTHRICOSIS.
I Macadan
Vet Rec 76(12) 354, 1 REF.
21 Mar 1964 41.8 V641
Cattle, Streptotrichosis.

7623-68
THE APPLICATION OF BLOOD TRANSFUSION IN CATTLE WITH PARTICULAR REFERENCE TO REDWATER (BABESIA BOVIS).
J C MacKellar
Vet Rec 74(27) 763-765, 7 REFS.
07 Jul 1962 41.8 V641
Blocd transfusions, Cattle, Piroplasmosis.

7624-68
MORPHOLOGICAL CHANGES IN A PARASITIC NEMATODE DUE TO ACQUIRED RESISTANCE OF THE HOST.
J F Michel
Nature 215 (5100), 520-521
29 Jul 1967 472 N21
Cattle, Morphology, Nematodes, Parasitism, Resistance.

7625-68
TRICHINOSIS DECLINES.
H Most
Amer Vet Med Ass J 147(11) 1262
01 Dec 1965 41.8 AM3
Swine, Trichinella, Trichinosis.

7626-68
PARAFILARIA MULTIPAPILLOSA IN THE HORSE.
D F Oliver
Vet Rec 76(30) 834
25 Jul 1964 41.8 V641
Diethylcarbamazine, Horses, Ringworm.

7627-68
LUNGWORM INFECTION IN CATTLE-CONTROL AND TREATMENT.
W H Parker
Amer Vet Med Ass J
142(7) 743-750, 25 REFS., 4 TABS., 7 FIGS.
01 Apr 1963 41.8 AM3
Calves, Diethylcarbamazine, Verminous bronchitis.

7628-68
GRISEOFULVIN IN THE TREATMENT OF BOVINE RINGWORM.
J K L Pearson J E F Rankin
Vet Rec 74(19) 564
12 May 1962 41.8 V641
Cattle, Griseofulvin, Ringworm.

7629-68
EFFICACY OF MICRONIZED PHENOTHIAZINE AGAINST HETERAKIS GALLINAE IN CHICKENS.
K G Powers E W Marty
Poultry Sci 43(1) 174-178
Jan 1964 47.8 AM33P
Cecal worms, Chickens, Heterakis, Phenothiazine.

7630-68
PROPHYLAXIS AGAINST TRYPANOSOMIASIS IN ZEBU CATTLE. III. POTENTIATION TRIALS AND A TRIAL OF R.D. 2902 IN AN AREA OF MEDIUM TRYPANOSOME RISK.
J Robson
Vet Rec 74(16) 481-482, 1 TAB.
21 Apr 1962 41.8 V641
Glossina, Trypanosomiasis, Zebu cattle.

7631-68
EFFICACY OF THIABENDAZOLE AGAINST COOPERIA SPP. AND OSTERTAGIA OSTERTAGI IN CATTLE.
R Rubin
Amer Vet Med Ass J 147(8) 860
15 Oct 1965 41.8 AM3
Cattle, Cooperia, Ostertagia, Thiabendazole.

7632-68
SURVIVAL OF ENCYSTED EGGS AND LARVAE OF THE SOYBEAN CYST NEMATODE, HETERODERA GLYCINES, INGESTED BY SWINE.
G C Smart Jr
Phytopathology 53(8) 889-890
Aug 1963 464.8 P56
Eggs, Larvae, Nematodes, Soybeans, Swine.

7633-68
FATAL STRIKE CAUSED BY CHRYSOMIA BEZZIANA IN CATTLE AND BUFFALOES.
H Stoddard E F Peck
Vet Rec 74(20) 591-592
19 May 1962 41.8 V641
Buffaloes, Cattle, Foot-and-mouth disease, Rinderpest.

7634-68
VACCINATION OF CALVES AGAINST RINDERPEST.
K L Strickland
Vet Rec 74(22) 630-631, 1 REF., 1 TAB.
02 Jun 1962 41.8 V641
Calves, Rinderpest, Vaccines.

7635-68
ECONOMIC PARASITOLOGY.
E L Taylor
Vet Rec 74(30) 844, 1 REF.
28 Jul 1962 41.8 V641
Cattle, Economics, Parasitology.

7636-68
A SIMPLE METHOD FOR THE CULTURE AND RECOVERY OF LARVAE OF INTESTINAL NEMATODES OF SHEEP.
V J Theodorides
Vet Rec 76(12) 353, 4 REFS.
21 Mar 1964 41.8 V641
Culture media, Nematodiasis, Sheep.

7637-68
METHYRIDINE IN THE CONTROL OF INTESTINAL CAPILLARIASIS IN BIRDS.
D Thienpont J Mortelmans
Vet Rec 74(31) 850-852, 10 REFS., 2 TABS.
04 Aug 1962 41.8 V641
Anthelmintics, Capillaria, Pigeons.

7638-68
IMMUNITY TO FASCIOLA HEPATICA INFECTION IN ALBINO RATS VACCINATED WITH IRRADIATED METACERCARIAE.
E Thorpe A W J Broome
Vet Rec 74(26) 755-756, 4 REFS., 2 TABS.
30 Jun 1962 41.8 V641
Fasciola, Immunity, Rats.

7639-68
A TAENACIDE FOR DOGS AND CATS.
T Turner
Vet Rec 76(6) 186
08 Feb 1964 41.8 V641
Anthelmintics, Cats, Dogs, Taeniasis.

7640-68
THE ANTHELMINTIC ACTIVITY OF METHYRIDINE BY INTRAPERITONEAL INJECTION IN SHEEP AND CATTLE.
J K Walley
Vet Rec 74(35) 927-932, 12 REFS., 7 TABS.
01 Sep 1962 41.8 V641
Anthelmintics, Cattle, Sheep.

7641-68
STUDIES ON THE DISTRIBUTION OF THE SHEEP TICK (IXODES RICINUS L.) AND THE OCCURRENCE OF ENZOOTIC STAPHYLOCOCCAL INFECTION OF LAMBS IN NORTH-WEST YORKSHIRE AND NORTH-EAST LANCASHIRE.
W A Watson
Vet Rec 76(27) 743-747, 15 REFS., 7 TABS.
04 Jul 1964 41.8 V641
Ixodides, Sheep.

7642-68
THE ROLE OF SELECTED MANAGEMENT SYSTEMS IN THE CONTROL OF SHEEP PARASITES.
W J Zimmerman
Amer Vet Med Ass J 147(5) 499-505, 4 FIGS.
01 Sep 1965 41.8 AM3
Helminthiasis, Parasitism, Phenothiazine, Sheep.

40 COMMODITY PROTECTION

7643-68
DEVELOPMENT OF GRANARY WEEVILS AND STORAGE FUNGI IN COLUMNS OF WHEAT- II. .
C M Christensen A C Hodson
J Econ Entomol 53(3) 375-380, BIBL., TABS., PL.
Jun 1960 421 J822
Aspergillus, Food storage, Fungi, Sitophilus, Wheat.

Storage Diseases

7644-68
FACTORS AFFECTING INVASION OF GRAINS AND SEEDS BY ASPERGILLUS FLAVUS AND EFFECTS OF THE FUNGUS ON GERMINATION OF THE SEEDS.
L C Lopez-Frias
Diss Abstr Sect B 27 (12,PT.1), 4208B
Jun 1967 Z5055.U49D53
Aspergillus flavus, Corn, Grain, Humidity, Oats, Peanuts, Rice, Seed germination, Seeds, Temperature, Wheat.

7645-68
GERMINATION OF CEREAL, SORGHUM, AND SMALL LEGUME SEEDS AFTER FUMIGATION WITH HYDROGEN PHOSPHIDE.
R G Strong D L Lindgren
J Econ Entomol 53(1) 1-4, BIBL.
Feb 1960 421 J822
Fumigation, Grain, Legumes, Phosphine, Seed germination, Sorghum.

Arthropods

7646-68
FUMIGATION OF BUILDINGS TO CONTROL THE DRY-WOOD TERMITE, CRYPTOTERMES BREVIS.
B A Bess A K Cta
J Econ Entomol 53(4) 503-510, BIBL., TABS., PL.
Aug 1960 421 J822
Buildings, Cryptotermes, Fumigation, Furniture, Methyl bromide, Termites.

7647-68
STORED-GRAIN INSECTS AND THEIR CONTROL IN NEW JERSEY.
H C Chapman
J Econ Entomol 53(4) 536-539, TABS.
Aug 1960 421 J822
Coleoptera, Fumigants, Grain, Heteroptera, Hymenoptera, Lepidoptera, Malathion, New Jersey, Psocoptera, Pyrethrum, Stored products.

7648-68
PRELIMINARY EVIDENCE OF RESISTANCE OF HIGH-AMYLOSE CORN TO THE ANGOUMOIS GRAIN MOTH.
D C Peters M S Zuber V Fergason
J Econ Entomol 53(4) 573-574, BIBL.
Aug 1960 421 J822
Amyloses, Corn, Stored products.

7649-68
INFLUENCE OF GRAIN MOISTURE AND STORAGE TEMPERATURE ON THE EFFECTIVENESS OF MALATHION AS A GRAIN PROTECTANT.
R G Strong D E Sbur
J Econ Entomol 53(3) 341-349, DIBL.
Jun 1960 421 J822
Food storage, Humidity, Malathion, Temperature.

7650-68
EFFECT OF METHYL BROMIDE AND HYDROCYANIC ACID FUMIGATION ON THE GERMINATION OF FLAX SEEDS.
R G Strong D L Lindgren
J Econ Entomol 53(1) 17-19, BIBL. 18-19, TABS.
Feb 1960 421 J822
Flaxseed, Fumigation, Hydrocyanic acid, Methyl bromide, Seed germination, Storage.

Microbial Contamination

7651-68
THE MICROBIOLOGICAL CONTAMINATION OF EGG SHELLS AND EGG PACKING MATERIALS.
R G Board J C Ayres A A Kraft R H Forsythe
Poultry Sci 43(3) 584-595
May 1964 47.8 AM33P
Bacteria, Egg containers, Eggs.

7652-68
THE EFFECT OF 2 HEPTA-5-METBYLBENZIMIDAZOLE AND HYDROCHLORIC ACID ON THE GROWTH OF MICROFLORA FOUND ON POULTRY CARCASSES.
G J Mountney U B Blackwood R N Kinsley J E O Malley
Poultry Sci 43(3) 778-780
May 1964 47.8 AM33P
Bacillus, Candida, Chickens, Chlortetracycline, Cornybacterium, Bepta-5-methylbenzimidazole, 2-, Hydrochloric acid, Peptococcus, Poultry meat, Pseudomonas, Rhodotorula, Staphylococcus.

7653-68
THE EFFECT OF FOOD GRADE POLYPHOSPHATES ON THE MICROBIAL POPULATION OF CHICKEN MEAT.
J E Steinhauer G J Banwart
Poultry Sci 43(3) 618-625
May 1964 47.8 AM33P
Bacteria, Chickens.

50 ENVIRONMENTAL CONTAMINATION

55 RESIDUES

7654-68
SOME FACTORS THAT INFLUENCE THE DEACTIVATION OF ATRAZINE IN SOIL.
O Agundis
Diss Abstr Sect B 27 (12,PT.1), 4187B
Jun 1967 Z5055.U49D53
Atrazine, Environment, Herbicide residues, Nitrogen, Soil air, Soil contamination, Soil moisture, Soil temperature, Soybeans, Theses.

7655-68
OXYGEN BALANCE IN A STREAM RECEIVING DOMESTIC AND OIL REFINERY EFFLUENTS.
R K Baumgardner
Diss Abstr Sect B 27 (12,PT.1), 4595B
Jun 1967 Z5055.U49D53
Algae, Industrial wastes, Oxygen, Streams, Water pollution.

7656-68
PESTICIDES AND THE SOIL FAUNA. I. EFFECTS OF ALDRIN AND DDT IN AN ARABLE FIELD.
C A Edwards E B Dennis D W Empson
Ann Appl Biol 60 (1), 11-22 REF
Aug 1967 442.8 AN72
DDT , Pesticide residues, Soil contamination, Soil fauna.

7657-68
THE EFFECT OF OILS ON HERBICIDAL ACTIVITY OF ATRAZINE AND LINURON AND OF WAXES AND OILS ON TBE MOVEMENT OF EPTC IN SOIL.
L C Liu
Diss Abstr Sect B 27 (12,PT.1), 4212B-4213B
Jun 1967 Z5055.U49D53
Atrazine, Corn, Crop yields, Ethyl N,N-dipropylthiocarbamate, Herbicides, Linuron, Naphthenes, Oats, Cils, Paraffin oils, Paraffin wax, Pesticide application, Soil leaching, Thiocarbamates.

7658-68
DECOMPOSITION OF 2,4-D AND RELATED PHENOXYACETIC ACIDS BY AN ARTHROBACTER SPECIES.
M A Loos
Diss Abstr Sect B 27 (12,PT.1) 4232B-4233B
Jun 1967 Z5055.U49D53
Arthrobacter, D, 2,4-, Enzymes, Herbicides, Phenoxyacetic acid compounds, Soil bacteria.

7659-68
PESTICIDE RESIDUES IN POULTRY SAMPLES, USDA STUDY SHOWS.
Amer Vet Med Ass J 147(11) 1253-1254
01 Dec 1965 41.8 AM3
Animal nutrition, Pesticide residues, Poultry.

7660-68
THE SAFE USE OF TOXIC CHEMICALS.
Vet Rec 76(10) 273-275
07 Mar 1964 41.8 V641
Accident prevention, Legislation, Pesticides, Public health.

7661-68
NICOTINE RESIDUES IN FIELD-TREATED CAULIFLOWER, CELERY, GREEN BEANS, KALE, MUSTARD GREENS AND SPINACB.
L D Anderson F A Gunther
J Econ Entomol 53(1) 64-65, BIBL., TABS.
Feb 1960 421 J822
Beans, Black Leaf 40, Cauliflower, Celery, Kale, Mustard greens, Nicotine, Residues, Spinach.

7662-68
DIPYRIDYLIUM RESIDUES IN AN AQUATIC ENVIRONMENT.
P G Beasley
Diss Abstr Sect B 27 (12,PT.1), 4596B
Jun 1967 Z5055.U49D53
Dipyridylium, Diquat, Fish, Herbicide residues, Paraquat, Roe, Soil contamination, Water pollution.

7663-68
INSECTICIDES IN HUMAN FAT IN NEW ZEALAND.
B V Brewerton B J W McGrath
New Zeal J Sci 10 (2), 486-492 REF
Jun 1967 514 N482
Children, Chlorinated hydrocarbons, Chromatography, Fats, Bumans, Insecticide residues, DDE , DDT , New Zealand.
Abstract included

7664-68
TOXIC CHEMICALS.
W M Brownlie
Vet Rec 76(5) 164
01 Feb 1964 41.8 V641
Pesticide residues.

7665-68
A COLORIMETRIC METBOD FOR TBE DETERMINATION OF CO-RAL IN ANIMAL TISSUES.
B V Claborn M C Ivey H D Mann
J Econ Entomol 53(2) 263-265, BIBL.
Apr 1960 421 J822
Coumaphos, Residues.

7666-68
MEASURING THE SURFACE AREA OF APPLES FOR EXPRESSION OF PESTICIDE RESIDUES.
R J Daum J E Dewey
J Econ Entomol 53(3) 462-467, BIBL., TABS.
Jun 1960 421 J822
Apples, Pesticides, Residues, Statistics.

7667-68
RESIDUES IN ESTABLISBED ALFALFA TREATED WITB GRANULATED PBORATE (THIMET) AND TBEIR EFFECT ON CATTLE FED THE BAY.
R C Dobson G O Throneberry T E Belling
J Econ Entomol 53(2) 306-310, BIBL., TABS.
Apr 1960 421 J822
Alfalfa, Cattle, Bay, Phorate, Residues.

7668-68
THE EXCRETION OF DIELDRIN, DDT, AND BEPTACBLOR EPOXIDE IN MILK OF DAIRY COWS FED ON PASTURES TREATED WITB DIELDRIN, DDT, AND BEPTACHLOR.
N Gannon G C Decker
J Econ Entomol 53(3) 411-415, BIBL. 414-415, TABS.
Jun 1960 421 J822
Cattle, Dieldrin, DDT , Heptachlor, Beptachlor epoxide, Milk, Residues.

7669-68
SEVIN RESIDUES ON SOYBEANS FOLLOWING ITS USE FOR ARMYWORM CONTROL.
L J Hardin W W Stanley D E Gonzalez S E Bennett
J Econ Entomol 53(3) 481-482, BIBL.
Jun 1960 421 J822
Carbaryl, Pseudaletia, Residues, Soybeans.

7670-68
HEPTACHLOR RESIDUES ON CORN STOVER IN RELATION TO DAIRY CATTLE FEEDING.
R E Johnsen P A Dahm H W Rusk M L Fairchild A E Freeman
J Econ Entomol 53(1) 19-22, BIBL.
Feb 1960 421 J822
Animal nutrition, Cattle, Corn, Corn stover, Dairy cattle, Heptachlor, Heptachlor epoxide, Milk analysis, Ostrinia nubilalis, Residues.

7671-68
THE EFFECT OF SOIL TREATMENTS OF CHLORDANE OR HEPTACHLOR ON THE FLAVOR OF TURNIPS, PARSNIPS, AND CARROTS.
M E Kirkpatrick J L Brogdon G J DeViney
J Econ Entomol 53(2) 285-287, BIBL.
Apr 1960 421 J822
Carrots, Chlordane, Heptachlor, Parsnips, Residues, Turnips.

7672-68
PERSISTENCE OF DDT, ALDRIN, AND LINDANE IN SOME MIDWESTERN SOILS.
E P Lichtenstein L J De Pew E L Eshbaugh J P Sleesman
J Econ Entomol 53(1) 136-142, BIBL. 141-142, TABS., PL.
Feb 1960 421 J822
Aldrin, DDT , Lindane, Residues, Soils.

7673-68
EPOXIDATION OF ALDRIN AND HEPTACHLOR IN SOILS AS INFLUENCED BY AUTOCLAVING, MOISTURE, AND SOIL TYPES.
E P Lichtenstein K R Schulz
J Econ Entomol 53(2) 192-197, BIBL. 196-197, TABS.
Apr 1960 421 J822
Aldrin, Autoclaves, Dieldrin, Epoxy resins, Heptachlor, Humidity, Residues, Soils.

7674-68
MALATHION RESIDUES ON AND IN THE LEAVES OF PHASEOLUS VULGARIS.
F Matsumura
J Econ Entomol 53(3) 452-454, BIBL.
Jun 1960 421 J822
Beans, Malathion, Residues.

7675-68
DDT RESIDUE STUDIES ON PEPPERS.
R E Menzer P P Burbutis R N Hofmaster L P Ditman
J Econ Entomol 53(4) 622-624, BIBL., TABS.
Aug 1960 421 J822
DDT , Redpeppers (vegetable), Residues.

7676-68
STUDIES ON THE METABOLISM AND RESIDUES OF P32-LABELED DELNAV IN A HEREFORD STEER.
F W Plapp Jr W S Bigley D I Darrow
J Econ Entomol 53(1) 60-64, BIBL. 63-64, TABS.
Feb 1960 421 J822
Hereford cattle, Mice,
P-dioxanedithiol s,S-bis (O,O-diethyl phosphorodithioate), P32-delnav, Residues, Spraying.

7677-68
ACUTE TOXIC EFFECTS UPON LIVESTOCK AND MEAT AND MILK RESIDUES OF DIELDRIN.
R D Radeleff W J Nickerson R W Wells
J Econ Entomol 53(3) 425-429, TABS.
Jun 1960 421 J822
Calves, Dieldrin, Goats, Lambs, Meat, Milk, Residues, Sheep.

7678-68
RESIDUE STUDIES OF LIVESTOCK SPRAYS CONTAINING SEVIN.
R H Roberts J B Jackson W E Westlake A J Ackerman
J Econ Entomol 53(2) 326-327, BIBL.
Apr 1960 421 J822
Carbaryl, Livestock, Residues, Spraying.

7679-68
DISSIPATION OF MALATHION RESIDUES ON TOMATO AND PEA.
P Singh R Lal
Indian J Entomol 28 (3), 332-338 REF
Sep 1966 420 IN23
Insecticide residues, Malathion, Peas, Tomatoes.

7680-68
RESIDUES OF MALATHION ON ALFALFA AND IN MILK AND MEAT.
C T Smith F Shaw R Lavigne J Archibald H Fenner D Stern
J Econ Entomol 53(4) 495-496, BIBL.
Aug 1960 421 J822
Alfalfa, Malathion, Meat, Milk, Residues.

7681-68
ANALYSIS OF EGG YOLK AND POULTRY TISSUES FOR CHLORINATED INSECTICIDE RESIDUES.
A R Stemp B J Liska B E Langlois W J Stadelman
Poultry Sci 43(1) 273-275
Jan 1964 47.8 AM33P
Chromatography, Florisil, Insecticide residues, Poultry.

7682-68
DDT DEPOSITS ON GRAPES AS AFFECTED BY GROWTH AND WEATHERING.
E F Taschenberg A W Avens
J Econ Entomol 53(2) 269-276, BIBL., TABS.
Apr 1960 421 J822
DDT , Grapes, Plant growth inhibitors, Residues, Weather.

7683-68
PARATHION AND EPN RESIDUE STUDIES ON CONCORD GRAPES.
E F Taschenberg A W Avens
J Econ Entomol 53(3) 441-445, BIBL. 444-445, TABS.
Jun 1960 421 J822
EPN , Grapes, Parathion, Residues.

7684-68
ORGANOCHLORINE PESTICIDES IN ANTARCTICA.
J O Tatton J H A Ruzicka
Nature 215 (5099), 346-348,MAP REF
Jul 1967 472 N21
Antarctica, Birds, DDE , DDT , Fish, Insecticide residues, Organophosphorus compounds.

7685-68
TOXIC CHEMICALS.
M Woodford
Vet Rec 76(6) 189, 1 REF.
08 Feb 1964 41.8 V641
Benzene hexachloride, DDT , Lindane, Pesticide residues.

60 TOXICOLOGY

7686-68
EFFECT OF MINERAL OIL SOLVENT ON THE TOXICITY AND SPEED OF ACTION OF MALATHION.
R Ahmed R G Gardiner
Nature 214 (5095), 1338-1339
24 Jun 1967 472 N21
Malathion, Mineral oil, Schistocerca gregaria, Toxicology.

7687-68
EVIDENCE FOR A DIFFERENCE IN TOXICITY BETWEEN COMMON AND HAIRY VETCH SEEDS FOR CHICKS.
G H Arscott J A Harper
Poultry Sci 43(1) 271-272
Jan 1964 47.8 AM33P
Chicks, Feed, Hairy vetch, Poisoning, Vetch.

7688-68
RELATIONSHIPS BETWEEN STRUCTURE AND INSECTICIDAL ACTIVITY OF SOME ORGANOTIN COMPOUNDS.
M S Blum J J Pratt Jr
J Econ Entomol 53(3) 445-448, BIBL.
Jun 1960 421 J822
Insecticides, Musca domestica, Organotin compounds, Toxicology, Triethyl chloride.

7689-68
CONTROL OF THAR (HEMITRAGUS JEMLAHICUS), EVALUATION OF A POISONING TECHNIQUE.
M H Douglas
New Zeal J Sci 10 (2), 511-526,MAP REF
Jun 1967 514 N482
Carrots, Poisoning, Sodium monofluoroacetate, Thab.

7690-68
PYRETHRINS AND RELATED COMPOUNDS. IX. ALKENBENZYL AND BENZYLRENZYL CHRYSANTHEMATES.
M Elliott N F Janes B C Pearson
J Sci Food Agr 18 (8), 325-331 REF
Aug 1967 382 S012
Alkenylbenzyl, Benzylbenzyl chrysanthemates, Musca domestica, Olefins, Pyrethrum, Toxicology.

7691-68
THE SEARCH FOR VETERINARY INSECTICIDES. II. CARBAMATES ACTIVE AGAINST SHEEP BLOWFLY.
J Fraser D Greenwood I R Barrison D F Wells
J Sci Food Agr 18 (8), 372-376 REF
Aug 1967 382 S012
Rutacarb(3,5-di-)-butylphenyl n-methylcarbamate, Calliphoridae, Carbamates, Insecticides, Pest control, Sheep, Toxicology, Veterinary medicine.

7692-68
EFFECT OF LATRODECTUS MACTANS TREDECIMGUTTATUS VENOM ON THE CRAYFISH STRETCH RECEPTOR NEURONE.
A Grasso P Paggi
Toxicon 5 (1), 1-4 REF
Jul 1967 391.8 T66
Crayfish, Latrodectus, Nervous system, Picrotoxin, Spider venom, Toxicology.
Abstract included

7693-68
HERITABLE RESISTANCE TO WARFARIN IN RATS.
J R Greaves P Ayres
Nature 215 (5103), 877-878
19 Aug 1967 472 N21
Heredity, Rats, Resistance, Rodent control, Rodenticides, Warfarin.

7694-68
TOXICITY OF ORGANIC PHOSPHORUS INSECTICIDES TO HORSES.
J R Jackson R O Drummond W R Ruck L M Hunt
J Econ Entomol 53(4) 602-604, BIBL. 603-604
Aug 1960 421 J822
Coumaphos, Dichlorvos, DOWCO 105, Horses, O-methyl O-(4-tert-butyl chlorophenyl) ethylphosphoramido-, Organic compounds, Phosphorus, Ronnel, Ruelene, Thioate, Toxicology, Trichlorfon, 4-tert-butyl-2-chlorophenyl methyl methylphosphoramidate.

7695-68
THE EFFECTIVENESS OF EDTA AS A FISH PRESERVATIVE.
R E Levin
J Milk Food Technol 30 (9), 277-283 REF
Sep 1967 44.8 J824
Ethylenediaminetetraacetic acid, Fish, Food preservation, Toxicology.

7696-68
STRUCTURE AND PESTICIDAL ACTIVITIES OF DERIVATIVES OF DINITROPHENOLS. III. STRUCTURE AND ACARICIDAL ACTIVITY OF CERTAIN CARBONATES OF 2-ALKYL-5-METHYL-4,6-DINITROPHENOLS AND RELATED COMPOUNDS.
M Pianka J D Edwards
J Sci Food Agr 18 (8), 355-360
Aug 1967 382 S012
Acaricides, Alkyl-5-methyl-4,6-dinitrophenols, 2-, Dinitrophenols, Mammals, Tetranychus telarius, Toxicology.

7697-68
THE TOXICOLOGY OF TRIODAN IN SEVERAL FISH AND AQUATIC INVERTEBRATES.
R A Schoettger
Diss Abstr Sect B 27 (12,PT.1), 4609B-4610B
Jun 1967 Z5055.U49D53
Aquatic animals, Chemical control (fish), Chlorinated hydrocarbons, Endosulfan, Fish, Theses, Toxicology.

7698-68
THE MECHANISM OF THE INTERACTION BETWEEN SOIL ORGANIC MATTER AND HERBICIDE TOXICITY AND THE INFLUENCE OF PH ON HERBICIDE PHYTOTOXICITY.
F L Selman
Diss Abstr Sect B 27 (12,PT.1), 4189B
Jun 1967 Z5055.U49D53
Chloro-N,N-diallyacetamide, 2-, D, 2,4-, Dalapon, Dinitrobutylphenol, Herbicides, Hydrogen-ion concentration, Phytotoxicity, Prometone, Simazine, Soil cation exchange, Soil organic matter.

7699-68
TOXICOLOGICAL ASPECTS OF 2,2-DICHLOROVINYL DIMETHYL PHOSPHATE (DDVP) IN COWS, HORSES, AND WHITE RATS.
R L Tracy J G Woodcock S Chodroff
J Econ Entomol 53(4) 593-601, BIBL., TABS.
Aug 1960 421 J822
Cattle, Dichlorvos, Horses, Musca domestica, Rats, Toxicology.

65 PLANT PHYSIOLOGY & BIOCHEMISTRY

7700-68
EFFECT OF METHYL BROMIDE SALMONELLA PULLORUM.
Amer Vet Med Ass J 142(6) 660
15 Mar 1963 41.8 AM3
Methyl bromide, Salmonella.

7701-68
THE MACERATING ENZYME OF RHIZOCTONIA SOLANI.
D F Bateman
Phytopathology 53(10) 1178-1186. BIBL., TABS.
Oct 1963 464.8 P56
Beans, Enzymes, Hydrogen-ion concentration, Maceration, Pectinase, Rhizoctonia, Tissues.

7702-68
INTERACTION OF GROWTH REGULATORS IN THE SENESCENCE OF NASTURTIUM LEAF DISKS.
L Beevers F S Guernsey
Nature 214 (5091), 941-942 REF
27 May 1967 472 N21
Leaves, Plant regulators, Plant senescence, Trapaeolum majus.

7703-68
AN INVESTIGATION OF THE TOXIC PLANT - RAYLESS GOLDENROD (APLOPAPPUS HETEROPHYLLUS).
N I Burke
Diss Abstr Sect B 27 (12,PT.1), 4302B
Jun 1967 Z5055.U49D53
Aplopappus heterophyllus, Plant composition, Poisonous plants.

7704-68
RESPIRATORY ACTIVITY AND ENZYMES FOR GLUCOSE CATABOLISM IN FUNGUS SPORES.
P G Caltrider D Gottlieb
Phytopathology 53(9) 1021-1030, BIBL., TABS.
Sep 1963 464.8 P56
Enzymes, Glucose, Metabolism, Respiration, Spore germination.

7705-68
PHYSIOLOGICAL AND METABOLIC CHANGES INDUCED BY LETHAL CONCENTRATIONS OF 2,4-D IN THE COCKLEBUR (XANTHIUM SPP.).
J Cardenas-Gonzalez
Diss Abstr Sect B 27 (12,PT.1), 4203B
Jun 1967 Z5055.U49D53
D, 2,4-, Herbicides, Plant metabolism, Plant physiology, Xanthium.

7706-68
SPORE GERMINABILITY IN SOIL AS AN INHERENT CHARACTER OF COCHLIOBOLUS SATIVUS.
S H F Chinn R D Tinline
Phytopathology 53(9) 1109-1112, BIBL., TABS., PL.
Sep 1963 464.8 P56
Bipolaris, Cochliobolus, Helminthosporium, Soils, Spore germination.

7707-68
PLANT POLYPHENOLS AS ANTIOXIDANTS FOR ASCORBIC ACID.
C A B Clemetson L Andersen
N Y Acad Sci Ann 136 (14), 341-376 REF
30 Sep 1966 500 N484
Antioxidants, Ascorbic acid, Phenols, Plants.

7708-68
TRANSLOCATION OF C14-LABELED COMPOUNDS IN COTTON AND OAKS.
M A Clor A S Crafts S Yamaguchi
Weeds 12(3) 194-200
Jul 1964 79.8 W41
Amitrole, Carbon isotopes, Cotton, Plant translocation, Quercus, Radioisotopes, Seedlings, Sucrose, Urea, 2,4-D.

7709-68
SPORE GERMINATION AND CARBON METABOLISM IN FUSARIUM SOLANI.
I. REQUIREMENTS FOR SPORE GERMINATION.
J C Cochrane V W Cochrane F G Simon J Spaeth
Phytopathology 53(10) 1155-1160, BIBL., TABS.
Oct 1963 464.8 P56
Carbon, Fusarium, Metabolism, Spore germination.

7710-68
CHLOROSIS INDUCED BY SUBSTITUTED BENZOIC ACIDS AND RELATED COMPOUNDS.
J R Dimmock
J Sci Food Agr 18 (8), 368-372 REF
Aug 1967 382 S012
Chlorophylls, Chlorosis (plants).

7711-68
ELECTRON MICROSCOPY OF THE SHEATH SURROUNDING THE HAUSTORIUM OF ERYSIPHE GRAMINIS.
H G Ehrlich M A Ehrlich
Phytopathology 53(11) 1378-1380, BIBL., PL.
Nov 1963 464.8 P56
Electron microscopy, Erysiphe, Haustorium, Puccinia.

7712-68
RAPID PLANT VIRUS ASSAY COMBINES DENSITY-GRADIENT CENTRIFUGATION AND OUCHTERLONY AGAR DIFFUSION SEROLOGICAL TESTS.
R E Ford
Phytopathology 53(10) 1138
Oct 1963 464.8 P56
Assay, Centrifugation, Density, Ouchterlony agar, Serological tests.

7713-68
PATHOGENICITY OF CHLORINATED-NITROBENZENE-TOLERANT STRAINS OF HYPOMYCES SOLANI F. CUCURBITAE RACE 2.
S G Georgopoulos
Phytopathology 53(9) 1081-1085, BIBL., PL.
Sep 1963 464.8 P56
Chlorine, Fusarium, Genetics, Hypomyces, Nitrobenzene.

7714-68
EFFECTS OF RELATIVE HUMIDITY AND TEMPERATURE ON THE DEGRADATION OF PEANUT SUGAR AND OIL BY ASPERGILLUS FLAVUS.
A W Hayes
Diss Abstr Sect B 27 (12,PT.1), 4278B
Jun 1967 Z5055.U49D53
Aspergillus flavus, Humidity, Oils, Peanuts, Plant metabolism, Seeds, Sugars, Temperature.

7715-68
CORALLOID ROOT SYSTEMS IN PLANTS SHOWING LIME-INDUCED CHLOROSIS.
T C Hutchinson
Nature 214 (5091), 943-945 REF
27 May 1967 472 N21
Chlorosis (plants), Lime.

7716-68
IN VITRO SPORIDIAL GERMINATION OF CRONARTIUM FUSIFORME.
A G Kais
Phytopathology 53(8) 987, BIBL.
Aug 1963 464.8 P56
Cronartium, Metamorphosis, Spore germination.

7717-68
METABOLISM OF METHYLCARBAMATE INSECTICIDE CHEMICALS IN PLANTS.
R J Kuhr
Diss Abstr Sect B 27 (12,PT.1), 4437B
Jun 1967 Z5055.U49D53
Beans, Carbamates, Insecticides, Metabolites, Plant metabolism, Radioactive tracers.

7718-68
THE MICROBIAL HYDROLYSIS OF CELLULOSE AND SOME FACTORS AFFECTING THE PRODUCTION OF CELLULASE IN A SUBMERGED CULTURE OF ALTERNARIA SP.
R M Logan
Diss Abstr Sect B 27 (12,PT.1), 4489B
Jun 1967 Z5055.U49D53
Alternaria, Cellulase, Cellulose, Hydrolysis, Quercus, Sawdust, Wood destroying fungi.

7719-68
THE ACTIVITY OF THE FUNGUS, CATANARIA ANGUILLULAE, AGAINST PLANT-PARASITIC NEMATODES.
R Mankau S A Sweeney
Phytopathology 53(10) 1140
Oct 1963 464.8 P56
Catanaria, Nematodes.

7720-68
COMPARATIVE ANATOMICAL STUDY OF LEAVES OF YOUNG AND MATURE BANANA PLANTS IN RELATION TO THE MORPHOLOGY OF CERCOSPORA MUSAE LESIONS.
M W McGahan R R Fulton
Phytopathology 53(8) 882
Aug 1963 464.8 P56
Bananas, Cercospora, Leaves, Plant anatomy, Plant morphology.

7721-68
ISOLATION AND CHARACTERIZATION OF A GERMINATION INHIBITOR FROM SUGAR BEET FRUIT.
E D Mitchell
Diss Abstr Sect B 27 (12,PT.1), 4284B
Jun 1967 Z5055.U49D53
Cyclohexene-1,2-dicarboximide, cis-4-, Plant growth inhibitors, Seed germination, Sugar beets.

7722-68
BIOLOGICAL RACES OF ALBUGO CANDIDA.
G S Pound P R Williams
Phytopathology 53(10) 1146-1149, BIBL.
Oct 1963 464.8 P56
Albugo, Reviews.

7723-68
INFLUENCE OF OAT AND ALFALFA RESIDUES ON SOIL RESPIRATION, FUNGISTASIS, AND SURVIVAL OF VERTICILLIUM ALBO-ATRUM.
R L Powelson S S Patil
Phytopathology 53(10) 1141
Oct 1963 464.8 P56
Alfalfa, Fungicides, Oats, Plant residues, Respiration, Soils, Verticillium.

7724-68
OOGONIUM GERMINATION IN PHYTOPHTHORA INFESTANS.
S Romero M E Gallegly
Phytopathology 53(8) 899-903, BIBL., TABS., PL.
Aug 1963 464.8 P56
Oogonium germination, Oospores, Phytophthora.

7725-68
THE HAPLOID BEHAVIOR OF UROCYSTIS COLCHICI TELIOSPORES.
R Tachibana R Duran
Phytopathology 53(10) 1142-1143
Oct 1963 464.8 P56
Polyploidy, Reproduction, Smut (onions), Teliospores, Urocystis.

7726-68
PROLONGING THE MOTILITY AND VIRUS-TRANSMITTING ABILITY OF OLPIDIUM ZOOSPORES WITH CHEMICALS.
D S Teakle A H Gold
Phytopathology 53(10) 1143
Oct 1963 464.8 P56
Olpidium, Plant disease transmission, Zoospores.

7727-68
COMPARISON OF VARIOUS ISOLATION MEDIA FOR THE ENUMERATION OF THIELAVIOPSIS BASICOLA IN SOIL DILUTION PLATES.
P R Tsao
Phytopathology 53(10) 1143
Oct 1963 464.8 P56
Thielaviopsis.

7728-68
A SLENDER-SPORED DACTYLELLA PARASITIC ON PYTHIUM OOSPORES.
DRECHSLER, C.
Phytopathology 53(9) 1050-1052, BIBL.
Sep 1963 464.8 P56
Dactylella, Oospores, Phytophthora, Pythium.

7729-68
THE MODE OF ACTION OF 2,6 DICHLORO-4-NITROANILINE IN RHIZOPUS ARRHIZUS SPORES.
D J Weber
Phytopathology 53(10) 1144
Oct 1963 464.8 P56
Dichloro-4-nitroaniline, 2,6-, Metabolism, Rhizopus, Spores.

7730-68
INHIBITION OF ENZYMES BY THE ANTHOCYANIN MALVIDIN-3-MONOGLUCOSIDE.
O R Wheeler J A Carpenter J J Powers M K Ramdy
Soc Exp Biol Med Proc 125 (2), 651-657 REF
Jun 1967 442.9 SO1
Anthocyanins, Escherichia coli bacterin, Folic acid, Grapes, Malvidin-3-monoglucoside, Plant growth inhibitors, Salmonella enteritidis, Staphylococcus aureus.

7731-68
PHYSIOLOGICAL RACES OF ALBUGO CANDIDA.
P H Williams G S Pound
Phytopathology 53(8) 893
Aug 1963 464.8 P56
Albugo, Taxonomy.

7732-68
A QUALITATIVE COMPARISON OF THE AMINO ACID CONTENT OF ACID HYDROLYSATES FROM THE MYCELIUM OF CUCURBIT ANTHRACNOSE FUNGI.
N N Winstead C L McCombs L B Lowie
Phytopathology 53(11) 1365-1367, BIBL.
Nov 1963 464.8 P56
Amino acids, Anthracnose (cucurbita), Colletotrichum, Cucurbita.

7733-68
ASPERYELLONE, A NEW YELLOW PIGMENT OF ASPERGILLUS AWAMORI AND ASPERGILLUS NIGER. II. THE CHEMICAL STRUCTURE OF ASPERYELLONE.
J Yu G Tamura N Takahashi K Arima
Agr Biol Chem 31 (7), 831-836
Jul 1967 385 AG8B
Aspergillus awamori, Aspergillus niger, Asperyellone.

70 CHEMISTRY

7734-68
TOXIC CHEMICALS.
P S Bramley
Vet Rec 76(2) 67
11 Jan 1964 41.8 V641
Pesticides, Toxicology, Wildlife.

7735-68
TOXIC CHEMICALS.
C A E Briggs
Vet Rec 76(1) 17, 2 REFS.
04 Jan 1964 41.8 V641
Pesticides, Toxicology.

7736-68
PRODUCTION OF 3-METHYL-6-METHOXY-8-HYDROXY-3,4-DIHYDROISO-COUMARIN BY CARROT ROOT TISSUE.
P Condon J Kuc H N Draudt
Phytopathology 53(11) 1244-1250, BIBL. 1249-1250, TABS.
Nov 1963 464.8 P56
Carrots,
Methyl-6-methoxy-8-hydroxy-3,4-dihydroisocoumarin, 3-,
Roots, Tissues.

7737-68
COMPARATIVE BACTERICIDAL PROPERTIES OF N-POLYHALOETBYLTHIO HYDANTOINS.
P H Eastburg F T Maurer W D Thomas Jr
Phytopathology 53(10) 1138
Oct 1963 464.8 P56
Agrobacterium, Bactericides, Corynebacterium, Erwinia,
N-polyhaloethylthio hydantoins, Pseudomonas, Xanthamonas.

7738-68
TOLERANCE TO CHLORINATED NITROBENZENES IN HYPOMYCES SOLANI F. CUCURBITAE AND ITS MODE OF INBERITANCE.
S G Georgopoulos
Phytopathology 53(9) 1086-1093, BIBL., TABS., PL.
Sep 1963 464.8 P56
Chlorine, Fusarium, Heredity, Hypomyces, Nitrobenzene.

7739-68
TOXICITY OF ORGANIC FLUORINE COMPOUNDS.
F T D Good
Vet Rec 76(1) 17-18
04 Jan 1964 41.8 V641
Fluorine compounds, Toxicology.

7740-68
TOXIC CHEMICALS.
H E Harbour
Vet Rec 76(4) 134
25 Jan 1964 41.8 V641
Fluorine, Pesticide residues, Poisoning.

7741-68
STUDIES ON TBE DECOMPOSITION OF SINALBIN. II. TBE COMPOSITION ERCDUCTS OF SINALBIN AND THEIR DEGRADATION PATHWAYS.
S Kawakishi M Namiki B Watanabe K Muramatsu
Agr Biol Chem 31 (7), 823-830 REF
Jul 1967 385 AG8B
Decomposition, Sinalbin.

7742-68
BIOASSAY METBODS FOR 4-AMINO-3,5,6-TRICHLOROPICOLINIC ACID.
J K Leasure
Weeds 12(3) 232-233
Jul 1964 79.8 W41
Amino-3,5,6-trichloropicolinic acid, 4-, Beans,
Biological assay, Seedlings, Soils, Tordon.

7743-68
PHYSIOLOGY OF ASEXUAL REPRODUCTION IN APHANOMYCES EUTEICHES.
J E Mitchell C Y Yang
Phytopathology 53(8) 883
Aug 1963 464.8 P56
Aphanomyces, Asexual reproduction, Physiology.

7744-68
RELEASE OF METBYLISOTHIOCYANATE FROM SOILS TREATED WITH MYLONE (3,5-DIMETBYL-TETRABYDRO-1,3,5,2H THIADIAZINE-2-TBIONE).
D E Munnecke
Phytopathology 53(10) 1140
Oct 1963 464.8 P56
Dimethyl-tetrahydro-1,3,5,2H thiadiazine-2-thione, 3,5-,
Methylisothiocyanate, Mylone, Soils.

7745-68
RELEASE OF RIBONUCLEIC AND AMINO ACIDS BY PHYTOPHTBORA.
O T Page F A Wood
Phytopathology 53(8) 946-949, BIBL. 948-949, TABS.
Aug 1963 464.8 P56
Bypoxanthine, Phytophthora, Ribonucleic acid, Solanum.

7746-68
CARBONYL SULPHIDE FROM THE DECOMPOSITION OF CAPTAN.
E Somers D V Richmond J A Pickard
Nature 215 (5097), 214
08 Jul 1967 472 N21
Captan, Carbonyl sulphide, Decomposition, Fungicides.

7747-68
EFFECT OF SOIL EXCBANGEABLE HYDROGEN AND CALCIUM RATIO AND TBE RESULTING PH ON INFECTION OF CITRUS FIBROUS ROOTS BY PHYTOPBTHORA PARASITICA.
P B Tsao J P Martin
Phytopathology 53(10) 1143
Oct 1963 464.8 P56
Calcium, Citrus, Hydrogen, Hydrogen-ion concentration,
Phytophthora.

7748-68
DECOMPOSITION OF SODIUM N-METBYLDITBIOCARBAMATE IN SOIL.
N J Turner M E Corden
Phytopathology 53(12) 1388-1394, BIBL., TABS.
Dec 1963 464.8 P56
Decomposition, Sodium, Sodium N-methyldithiocarbamate,
Soils, Vapam.

7749-68
THE EFFECT OF N-DODECYLGUANIDINE ACETATE ON ENZYME ACTIVITY AND TBE NUCLEOTIDES OF RIBONUCLEIC ACID.
B G Tweedy
Phytopathology 53(8) 892
Aug 1963 464.8 P56
n-dodecylguanidine acetate, Enzymes, Glomerella, Monilinia,
Nucleotides, Ribonucleic acid.

7750-68
MODE OF ACTION OF 2,6 DICHLORO-4-NITROANILINE (DCNA) IN RBIZOPUS ARRHIZUS.
D J Weber J M Ogawa
Phytopathology 53(8) 893
Aug 1963 464.8 P56
Deoxyribonucleic acid, Dichloro-4-nitroaniline, 2,6-,
Proteins, Rhizopus, Ribonucleic acid.

80 ENGINEERING

7751-68
MICROSCOPIC STUDY OF BOVINE ENDOMETRIUM.
Amer Vet Med Ass J 142(6) 657-658
15 Mar 1963 41.8 AM3
Electron microscopes, Endometrium, Bistology.

7752-68
LOCALITY AND DATA LABELS FOR INSECTS.
R B Arnett
Entomol Soc Amer Ann 60 (5), 1111-1112
Sep 1967 420 EN82
Insect collecting equipment.

7753-68
APPARATUS FOR INSECTICIDE ASSAY.
C C Bassett R Kirk G B Craig
J Econ Entomol 53(3) 483, BIBL.
Jun 1960 421 J822
Aedes aegypti, Equipment, Insecticides.

7754-68
DOSIMETRY FOR STUDIES ON THE RADIOBIOLOGY OF TRIBOLIUM CASTANEUM USING THE VAN DE GRAAFF ELECTRON ACCELERATOR.
J D Bilchey R D Cooper
J Econ Entomol 53(4) 496-500, BIBL.
Aug 1960 421 J822
Radiobiology, Tribolium, Van de Graaff generators.

7755-68
PURIFICATION OF THE SELECTIVE TOXIN OF PERICONIA CIRCINATA.
R B Pringle R P Scheffer
Phytopathology 53(7) 785-787
Jul 1963 464.8 P56
Blight (sorghum), Periconia, Roots, Toxicology, Toxins.

7756-68
AN INEXPENSIVE, VERSATILE OXYGEN ELECTRODE.
H W Spurr Jr A C Bildebrandt A J Riker
Phytopathology 53(7) 782-784, TABS
Jul 1963 464.8 P56
Chlorogenic acid oxidases, Crown galls (plants), Electric circuits, Electrochemistry, Electrodes, Oxidases, Oxygen, Oxygen electrodes, Phytopathology, Tagetes.

7757-68
DEW, ITS SIGNIFICANCE AND MEASUREMENT IN PHYTOPATHOLOGY.
J R Wallin
Phytopathology 53(10) 1210-1216, BIBL. 1215-1216, TABS.
Oct 1963 464.8 P56
Dew, Measurement, Measuring equipment, Phytopathology.

7758-68
A FUMIGANT VAPORIZER UNIT FOR USE IN LABORATORY EXPERIMENTS.
W K Whitney O K Jantz
J Econ Entomol 53(4) 562-564, BIBL., PL.
Aug 1960 421 J822
Equipment, Fumigants, Grain, Vaporizer.

90 INDUSTRY

Education

7759-68
PESTICIDE SAFETY EDUCATION.
<et. al.
Agr Chem 22 (9), 28-30,32
Sep 1967 381 AG8
Accident prevention, Education, Pesticides.

7760-68
THE SAFE USE OF MODERN PESTICIDES. 2.
L Lykken
Agr Chem 22 (9), 35-36
Sep 1967 381 AG8
Accident prevention, Humans, Pesticides, Poisoning.

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Insect Pathology Research Institute, Sault St. Marie, Ont. 6480 6490 6492 6543
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Laboratory Of Insect Pathology And Entomology Laboratory 6580
Institute Of Biology, Prague, Czechoslovakia
Laboratory Of Insect Pathology 6463
Institute Of Biology, Praha, Czechoslovakia
Laboratory Of Insect Pathology 6660
Institute Of Plant Protection, Poznan, Poland
Laboratory Of Biological Control 6576 6578
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Veterinary Investigation Centre 7292
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Veterinary Investigation Centre 7340
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Veterinary Division 7634
Ministry Of Animal And Forest Resources, Northern Nigeria
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North Carolina State College, Raleigh 6662 6808 6835 6857 6873 6885
North Carolina State University, Raleigh 6454 6594 6726 6920 7087 7115 7347 7698
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Rothamsted Experimental Station, Harpenden, England
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U.S. Dept. Of Agriculture, Belle Glade, Fla.
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Animal Disease And Parasite Research Division 7483
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U.S. Dept. Of Agriculture, Logan, Utah 6950 6951
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U.S. Dept. Of Agriculture, Vincennes, Ind.
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Bureau Of State Services
Communicahle Disease Center 7575
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☆ U.S. GOVERNMENT PRINTING OFFICE: 1968 0-300-987

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